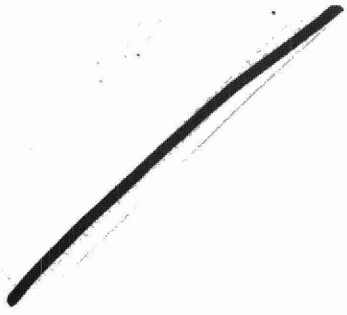
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SARNIA OXIDANT STUDY

JUNE-JULY 1984: METEOROLOGICAL MEASUREMENTS AND SYNOPTIC ANALYSIS



DECEMBER, 1984

ARB-023-85-AQM

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1. INTRODUCTION

This report is a compilation of the meteorological data and synoptic weather information for the Sarnia Oxidant Study, which took place in June and July 1984. It contains a brief daily weather synopsis and an investigation of the representativeness of the study period. In addition, forward and backward daily air parcel trajectories over the Sarnia area during the study period are presented.

It should be noted that there are three reporting times used in the data compilation: GMT - Greenwich Mean Time, LST - Local Standard Time and LDT - Local Daylight Time. These are related in the following manner.

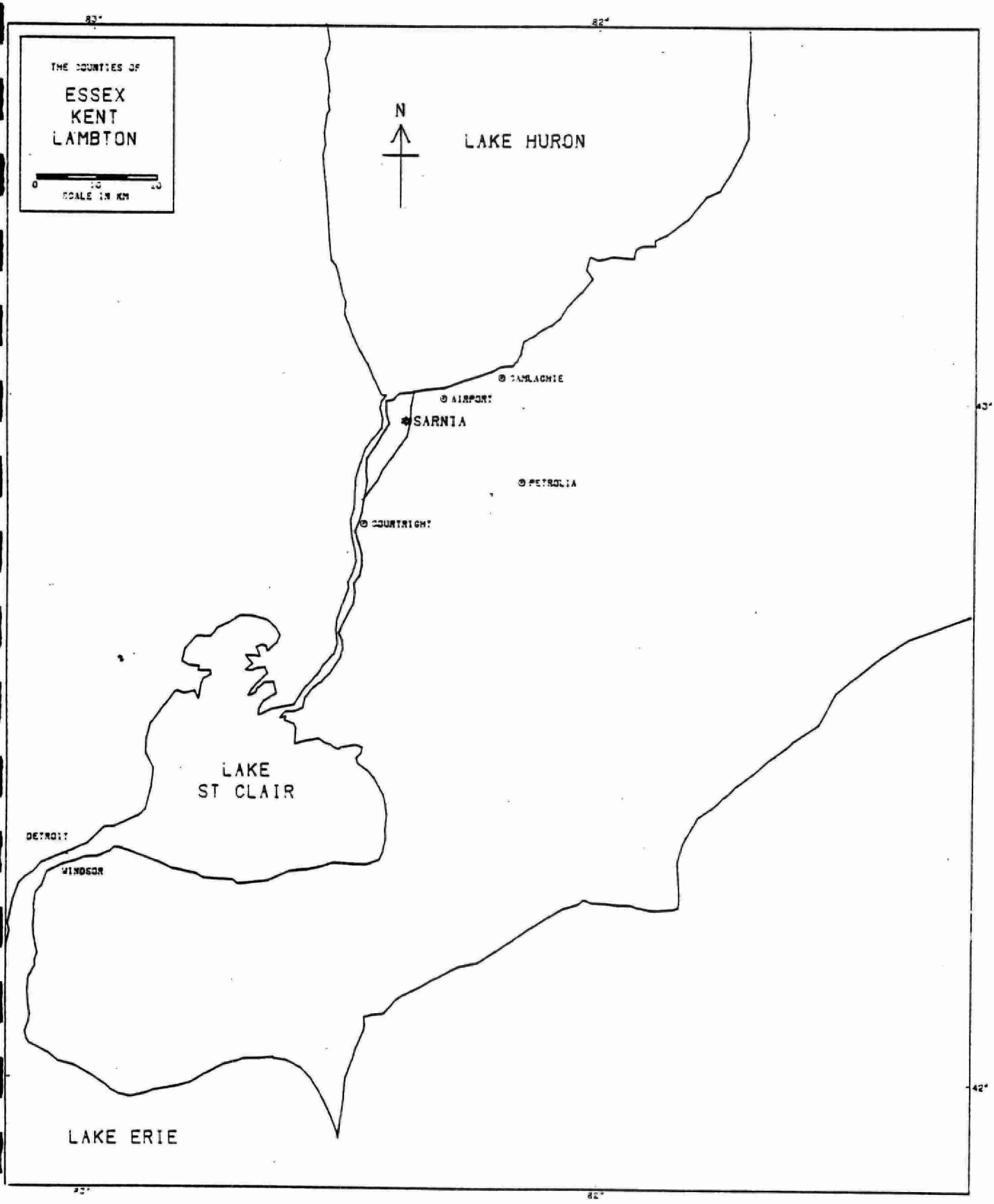
LST = GMT - 5 HOURS
LDT = GMT - 4 HOURS

LDT = LST + 1 HOUR

2. METEOROLOGICAL MONITORING SITES

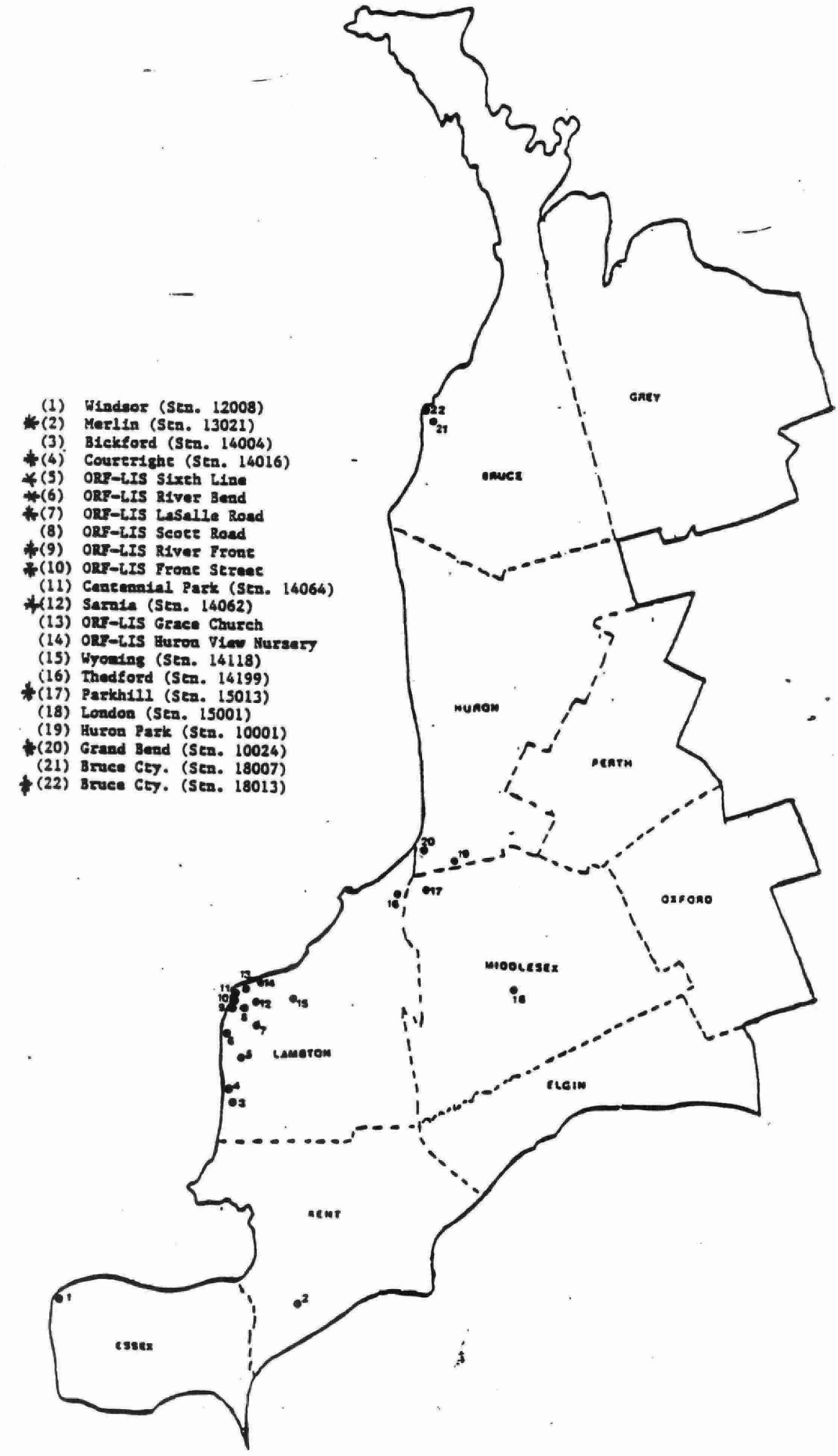
SARNIA OXIDANT STUDY - JUNE AND JULY 1984

MONITORING SITES



* METEOROLOGICAL MEASUREMENT SITES

FIGURE 1-MONITORING LOCATIONS



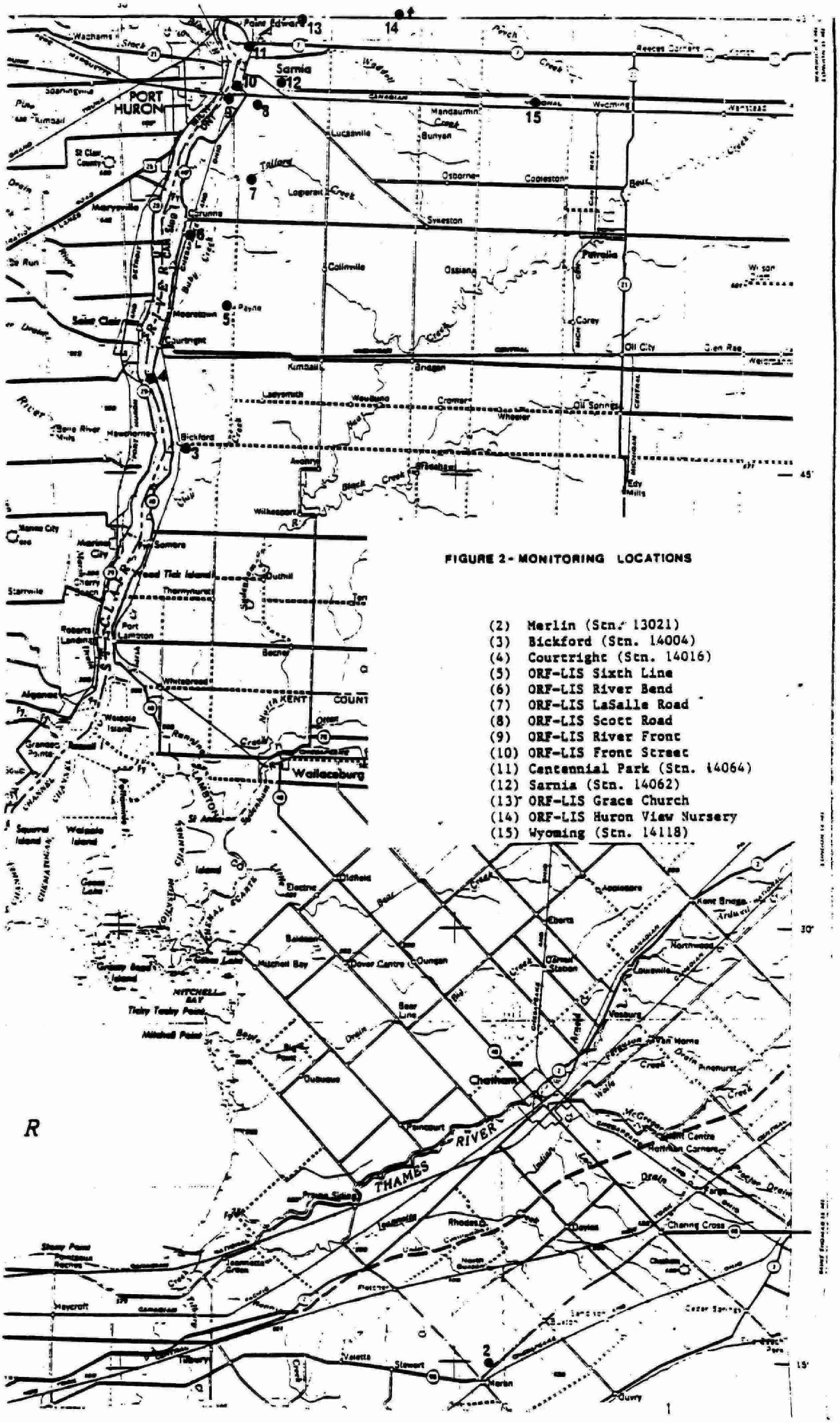
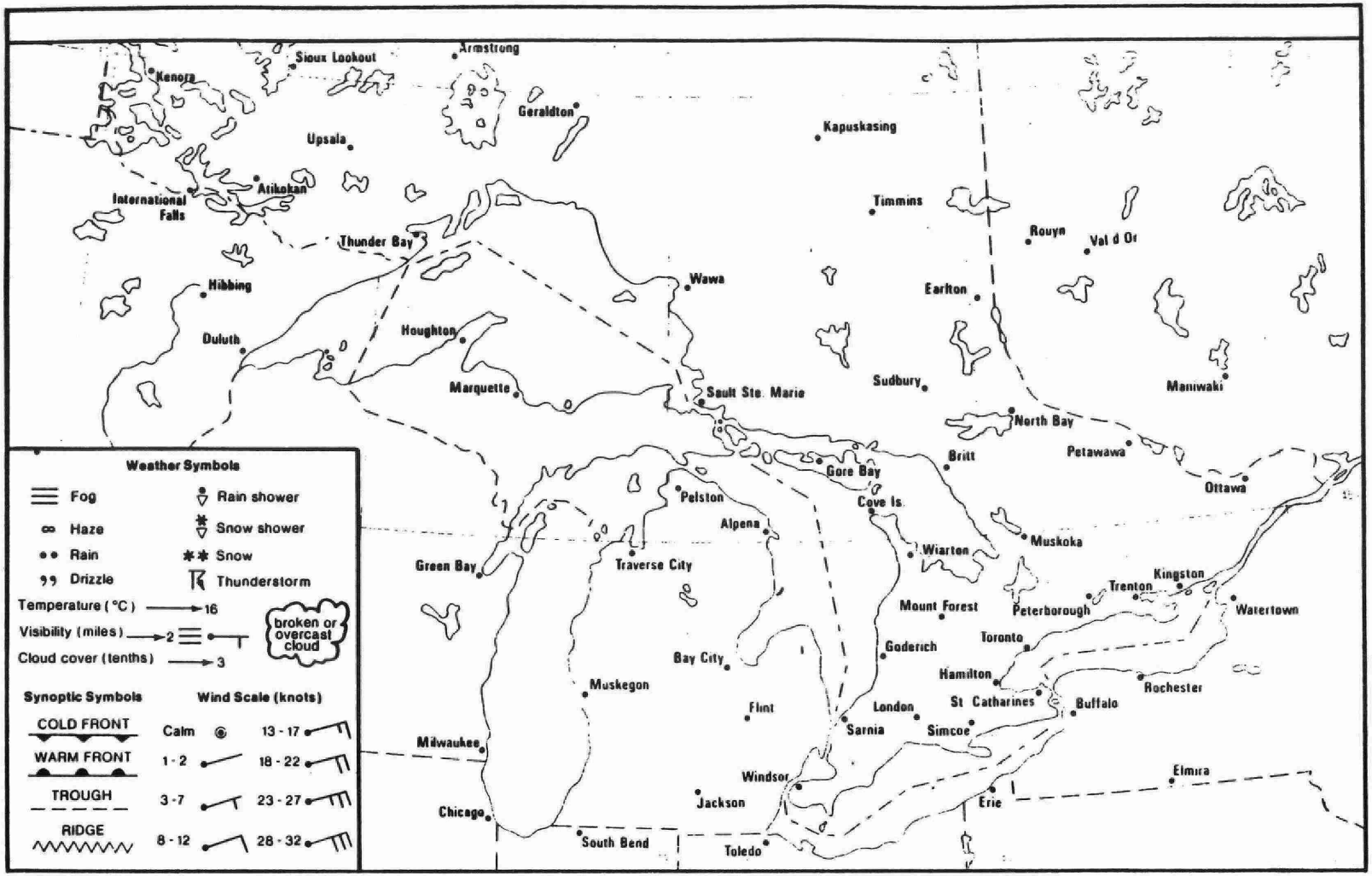


FIGURE 2 - MONITORING LOCATIONS



WIND AND STABILITY FORECASTS

SOUTHERN ONTARIO
(south of 45° N. lat.)

NORTHEASTERN ONTARIO
(east of 85° W. long.)

NORTHWESTERN ONTARIO
(west of 85° W. long.)

PUBLIC FORECASTS

METRO TORONTO

HAMILTON

LONDON

WINDSOR

SUDBURY

THUNDER BAY

Produced by [redacted] AND METEOROLOGY SECTION, AIR RESOURCES [redacted]CH

Meteorological Towers Maintained by Ontario Ministry of the Environment 1975-1984

Station Number/Location		Instrumentation	Height of Sensor	Dates Available
1. Southwest Region				
10024	Grand Bend Airport Hwy 81	WS1, WD1	10 m	July 83-present
12001	1.1 km NNE Keith G.S. Windsor	WS1, WD1, T WS3, WD3 DT2	18 m 80 m 80-18m	Jan. 80-present Jan. 81-present
12032	Morton Deck Windsor	WS1, WD1, T WS2, WD2 DT2	6 m 30 m 30-6 m	Jan. 75-Dec. 80
12034	CP Tower Riverside Dr. Windsor	WS1, WD1, T WS2, WD2 DT2	10 m 46 m 46-10m	Jan. 75-Dec. 80
13002	Chatham Sewage Plant Chatham	WS1, WD1	8 m	Jan. 81-Sept. 82
13021	Merlin Water Pumping Station Merlin	WS1, WD1	9 m	Aug. 80-Present
14016	Opp. Lampton G.S. Courtright	WS1, WD1, T WS2, WD2 WS3, WD3 DT1 DT2	10 m 30 m 91 m 30-10 m 91-10 m	Jan. 75-Present
14062	242 Indian Rd. S. Sarnia	WS1, WD1	9 m	Mar. 77-Present
14901	Riverside Blvd, Mobile Station Corunna	WS1, WD1	10 m	Feb. 79-Sept. 79
14902	286 Paget St. Corunna	WS1, WD1	10 m	Nov. 79-Apr. 80
14903	Virgil LaSalle, Froomfield Corunna	WS1, WD1	10 m	May 80-Jan. 81
15002	Greenway Sewage Plant London	WS1, WD1	25 m	June 80-Feb. 82
15007	Fern Ford, 1012 Talbot St. St. Thomas	WS1, WD1	12 m	Jan. 77-Jul. 80
15013	Parkhill Water Pumping Station	WS1, WD1	10 m	July 83-present

Station Number/Location		Instrumentation	Height of Sensor	Dates Available
1. Southwest Region				
17006	St. Anthony's SS, Hwy 2, Beachville	WS1, WD1	10 m	Jan. 75-present
18013	Bruce Nuclear Site Tiverton	WS1, WD1, T WS2, WD2, WS3, WD3, DT1 DT2	10 m 30 m 100 m 30-10 m 100-10 m	Dec. 81-present
2. West Central Region				
22022	J. Tennison Stromness	WS1, WD1	10 m	Jan. 75-Oct. 75
22023	Wray Manor Rd. Pt. Maitland	WS1, WD1	9 m	Jan. 75-Mar. 78
22883	Jarvis Met. Tower	WS1, WD1, T WS2, WD2 DT1	10 m 85 m 85-10 m	Jan. 84-present
22901	Long Point Prov. Park	WS1, WD1, T WS2, WD2 DT1	10 m 85 m 85-10 m	Jan. 84-present
27011	Hydro SS, Hwy 58 Allanburg	WS1, WD1, T WS2, WD2 DT1	10 m 37 m 37-10 m	Dec. 81-present Jan. 75-present Dec. 81-present
27013	PS Victoria/Leader Niagara Falls	WS1, WD1	9 m	Jan. 75-July 79
27027	PS 309 Beatrice St. Welland	WS1, WD1	10 m	Jan. 75-Oct. 78
27049	Murray/Buchanan Ave. Niagara Falls	WS1, WD1	10 m	July 79-Mar 81
29026	Brampton-Woodward Hamilton	WS1, WD1, T WS2, WD2 DT1	10 m 61 m 61-10 m	Jan. 75-present
3. Central Region				
31045	Bruce PS, Larchmount Ave. Toronto	WS2, WD2	21 m	Jan. 75-present
31120	Junction Triangle Perth Ave Toronto	WS1, WD1	18 m	Nov. 82-present
33003	Lawrence-Kennedy Scarborough	WS1, WD1, T WS2, WD2 DT1	12 m 76 m 76-12 m	Jan. 75-present
33021	Oliver Mowat PS Scarborough	WS1, WD1	14 m	Feb. 75-Nov. 77 May 79-May 80

3. Central Region (Cont'd)				
35033	Evans/Arnold Ave. Etobicoke	WS1, WD1, T WS2, WD2 WS3, WD3 DT1 DT2	10 m 30 m 91 m 30 - 10 m 91 - 10 m	Jan. 75-present
44015	Bronte Rd/Woborn Cres. Oakville	WS1, WD1	10 m	May 80-present
45025	Ritson Rd/Olive Ave. Oshawa	WS1, WD1	10 m	Feb. 79-present
48002	MTC Yard #9 Highway 47 Stouffville	WS1, WD1	10 m	Mar. 82-present
58031	Filtration Plant, Marsh St. Port Hope	WS1, WD1	10 m	Sept. 79-present
4. Southeast Region				
56065	861 West Second St. Cornwall	WS1, WD1	9 m	Jan. 76-present
5. Northwest Region				
61010	Lassie/Dickenson Rds. Balmertown	WS1, WD1	15 m	Feb. 78-Jan 81
63084	Recreation Centre Red Rock	WS1, WD1	12 m	Dec. 81-present
63090	St. Martin School Terrace Bay	WS1, WD1	12 m	Oct. 82-present
6. Northeast Region				
71038	Lucie Pit, Algoma Ore Wawa	WS1, WD1	9 m	Jan. 75-Apr. 76
71060	Trans-Canada Commun. Tower, Elliot Lake	WS2, WD2	30 m	Jan. 83-present
77013	Hanmer Sudbury Airshed	WS1,WD1	10 m	Jan.83-present
77016	Ash Street Sudbury	WS1, WD1	9 m	Jan.-Mar. 75
77025	CKNC-TV, 699 Frood Rd. Sudbury	WS1, WD1, T WS3, WD3, DT2	10 m 116 m 116-10 m	Jan.75-present

Legend: WS1 - wind speed below 23 m; WD1 - wind direction below 23 m;
WS2 - wind speed 23 m to 76 m; WD2 - wind direction 23 m to 76 m
WS3 - wind speed above 76 m; WD3 - wind direction above 76 m;
T - ambient temperature; DT1 - temperature difference
Level 2 minus Level 1; DT2-temperature difference Level 3 minus Level 1.

3. SYNOPTIC WEATHER

3.A SYNOPTIC WEATHER SITUATION DURING THE SARNIA OXIDANT STUDY (BASED UPON 0700 EST WEATHER MAPS)

25 JUNE 1984

Region under "front of the high" (Class 1) flow. Ridge from Arkansas to Western Lake Superior. Ridge moving east.

26 JUNE 84

Ridge from West Virginia to Ottawa. Region under the High (Class 2). Warm front from Lake Nipigon to Grand Rapids, Mich.

27 JUNE 84

Low pressure cell located over Sault Ste. Marie. Warm front from low through Hamilton. Cold front from low to just west of Detroit. Southerly flow shifting to westerly. Low moving northeast.

28 JUNE 84

Low south of James Bay. Region in cyclonic westerly flow.

29 JUNE 84

Weak gradient. Previous low dissipating. Small high pressure cell building over NW Ontario.

30 JUNE 84

Class 1 situation. High centre over Lake Superior quasi-stationary. Region in northerly flow.

1 JULY 84

Class 1 situation. Highs over Wisconsin and eastern Tennessee. Region in northerly flow.

2 JULY 84

Broad area of high pressure just south of the Great Lakes extending from the Mississippi Valley to the Atlantic Coast. Region in light and variable flow.

3 JULY 84

"Back of high" (Class 3) situation. Region in SW flow. High centered over South Carolina.

4 JULY 84

Cold front extending from low in northern Quebec curving through Kingston SW to Toledo and extending to north Texas.

5 JULY 84

Cold front of previous day now from Gulf of St. Lawrence SW to west Texas running across lower Lakes from Cornwall to Toledo.

6 JULY 84

Low centre over Sault Ste. Marie with cold front through central Michigan. Low moving NNE.

7 JULY 84

Low now east of James Bay. Cold front through Quebec City to Central Virginia. Trough crossing Georgian Bay. High western Wisconsin. Region in Class 1. NW flow.

8 JULY 84

High centre over Ohio. Region in light and variable flow.

9 JULY 84

Class 3 situation. High centre in Virginia. Ridge through Montreal. Region in S-SW flow.

10 JULY 84

Warm front from Marquette, Michigan to Erie, Pennsylvania. Developing low over Michigan.

11 JULY 84

Low over Parry Sound with warm front through Toronto and cold front trailing through Chicago. Low moving ENE.

12 JULY 84

Low northern Maine. High over Kansas. Region in westerly flow.

13 JULY 84

High over Kentucky with ridge to Moosonee. Region in light and variable flow.

14 JULY 84

High over SE U.S. Warm front Duluth, Minnesota eastward through Sudbury. Region in Class 3 flow

15 JULY 84

Low west of James Bay. Warm front to Montreal. Cold front through Sault Ste. Marie SW to Chicago. Region in SW cyclonic flow.

16 JULY 84

High east of James Bay. Cold front Montreal to Memphis, Tennessee. High over Iowa. Region in W-NW flow.

17 JULY 84

Low over Lake Superior. Cold front Sault Ste Marie through Milwaukee to central Kansas.

18 JULY 84

Dissipating low over southwestern Quebec. High pressure ridge north Texas to western Lake Superior. Region in Class 1 flow.

3.B REPRESENTATIVENESS OF THE STUDY PERIOD

A determination of the representative synoptic weather situation at 0700 EST for each day during the study period compared with the same 24 day period in the years 1976-1983 shows a more frequent number of days with "front of the high" northerly flow and cyclonic activity than the other years and a less frequent number of days with a lack of synoptic pattern (small pressure gradient over eastern Great Lakes not associated with a specific weather system).

Such a pattern indicates average O_3 levels may have been lower than in previous years during this period taken as a whole. On no occasions was there a period with a run of days that was condusive to establishing a pattern of extensive elevated O_3 concentrations. Such conditions usually take place when a run of "back of the high" or "centre of the high"/"no gradient" days occurs.

KCH/mb/AQM28-33

SARNIA OXIDANT STUDY

25 JUN-18 JUL

# day with W_x Class	84	83	82	81	80	79	78	77	76	Mean 83-76
1	6	2	2	3	5	5	5	3	4	3.6
2	4	5	4	7	6	5	7	4	4	5.2
3	3	6	7	2	1	1	5	4	1	3.4
4	1	1	1	1	1	1	0	2	0	.9
5	5	2	4	2	5	4	2	3	7	3.6
6	4	7	2	2	4	1	4	2	2	3.0
7	0	0	1	1	0	0	0	3	3	1.0
8	1	1	3	6	2	7	1	3	3	3.2

DAY/W_x Class	1984	83	82	81	80	79	78	77	76
25 JUN	1	2	3	5	8	2	3	5	5
26	2	4	6	1	6	2	3	8	2
27	5	6	8	2	1	3	5	8	7
28	5	5	7	2	5	6	1	4	7
29	8	2	5	5	5	4	1	1	7
30	1	3	1	6	1	5	6	3	5
1 JUL	1	3	1	7	3	5	2	5	5
2	2	6	2	3	5	5	2	1	5
3	3	3	4	8	2	1	3	2	5
4	6	3	5	8	6	8	2	3	8
5	6	6	3	8	5	1	2	7	8
6	6	1	3	2	1	1	2	2	8
7	1	2	3	2	2	2	3	7	3
8	2	3	6	3	5	2	6	5	6
9	3	6	8	6	2	8	8	1	2
10	4	2	2	1	8	8	6	2	2
11	5	2	5	2	6	8	1	3	5
12	1	6	5	2	1	8	2	4	1
13	2	1	2	4	2	8	3	6	1
14	3	3	2	1	2	8	6	2	2
15	5	8	8	2	4	5	5	3	5
16	6	6	3	8	6	1	1	7	6
17	5	5	3	8	1	1	1	8	1
18	1	6	3	8	2	2	2	6	1

Appendix 1

Classification of Synoptic Weather Patterns over Southern Ontario

In order to study the relationship between synoptic weather patterns and measured pollutants, eight classes have been defined to categorize the daily weather patterns. They are:

Class 1: Post-cold front/pre-high pressure ridge; this class has highest pressure to the west and the gradient flow generally has a northerly component. A cold frontal passage may have occurred on the previous day (Figure 6).

Class 2: High pressure ridge: the area is within the centre or ridge of a high-pressure (anticylonic) system (Figure 7).

Class 3: Post-ridge/pre-warm front: highest pressure is to the east; gradient winds generally have a southerly component. Warm frontal passage may occur on the following day (Figure 8).

The above three classes are associated with the movement of a cell of high pressure. They occur most frequently of all the classes.

Class 4: Warm front: a warm front passing through the area associated with a low pressure system not within the area (Figure 9).

Class 5: Cyclonic: the area contains a cell of low pressure often with associated frontal passages or is influenced by a major cyclonic storm system adjacent to the area (Figure 10).

Class 6: Cold front: a cold front passing through the area associated with a low pressure system not within the area (Figure 11).

Classes 4 through 6 are associated with low pressure systems. Classes 4 and 6 are used only when passage of the front is not associated with nearby cyclonic systems. An example of Class 4 is a warm front sweeping the area from the southwest which extends to a low

moving northeastward across Lake Michigan. An example of Class 6 occurs when a storm system located in the vicinity of James Bay-Hudson Bay has an associated cold front extending across the Great Lakes. Class 4 occurs infrequently.

Class 7: Stationary front: a stationary front lies through the area (Figure 12).

Class 8: Weak pressure gradient: pressure gradient through the region is very weak: direction of flow is due to local influence rather than gradient wind, no clear influence of fronts or pressure systems (Figure 13).

Classes 7 and 8 are weather conditions not tied to a specific wind flow pattern. In Class 7, the study area may be either to the north or the south of the front. It is recognized that the location of the front in relation to the study area may have a profound effect on the distribution of pollutants.

Figure 6

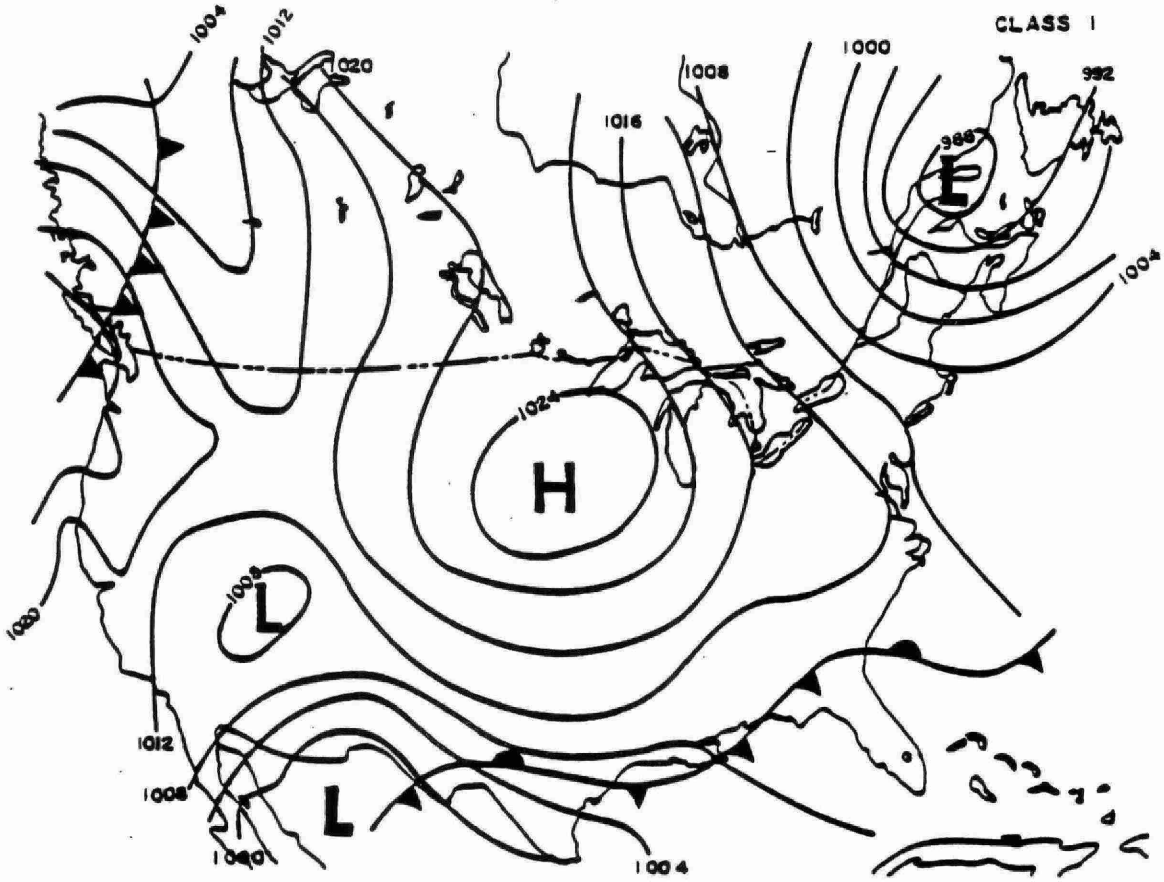


Figure 7

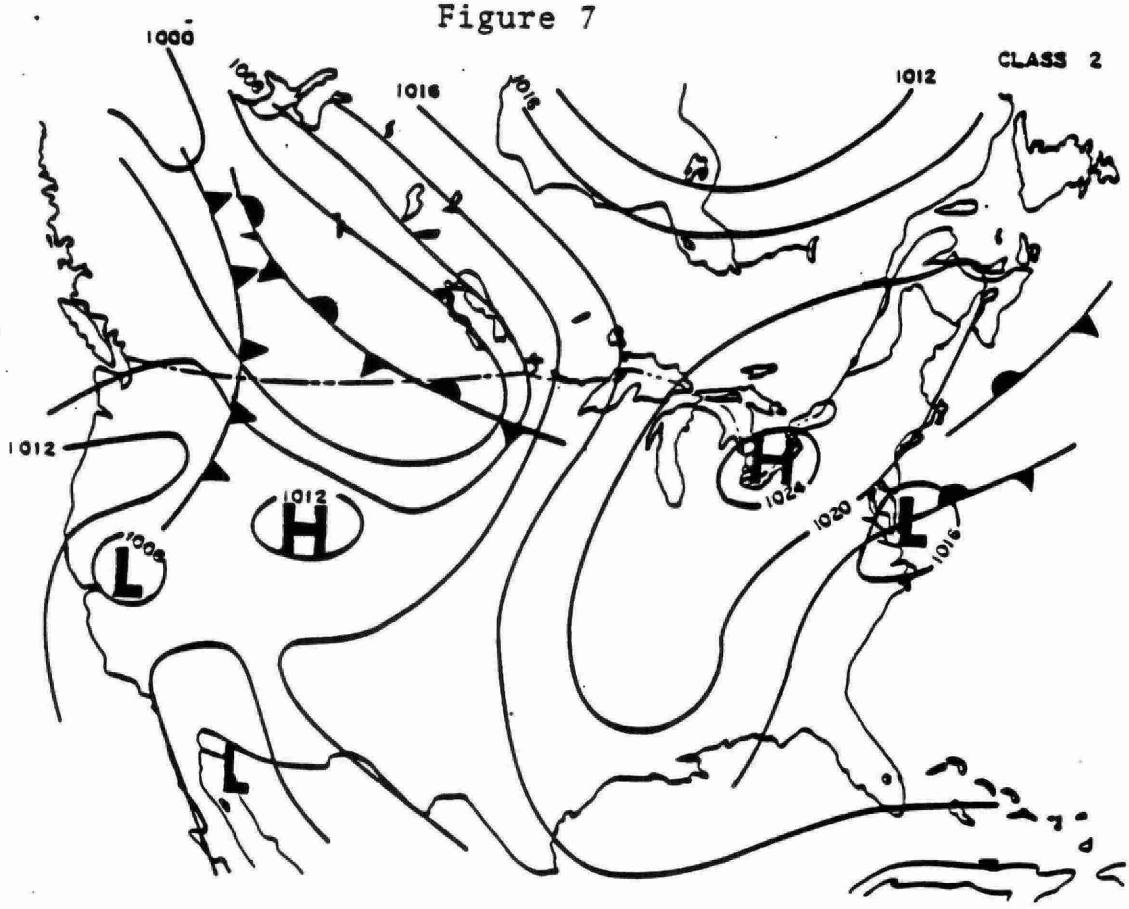


Figure 8

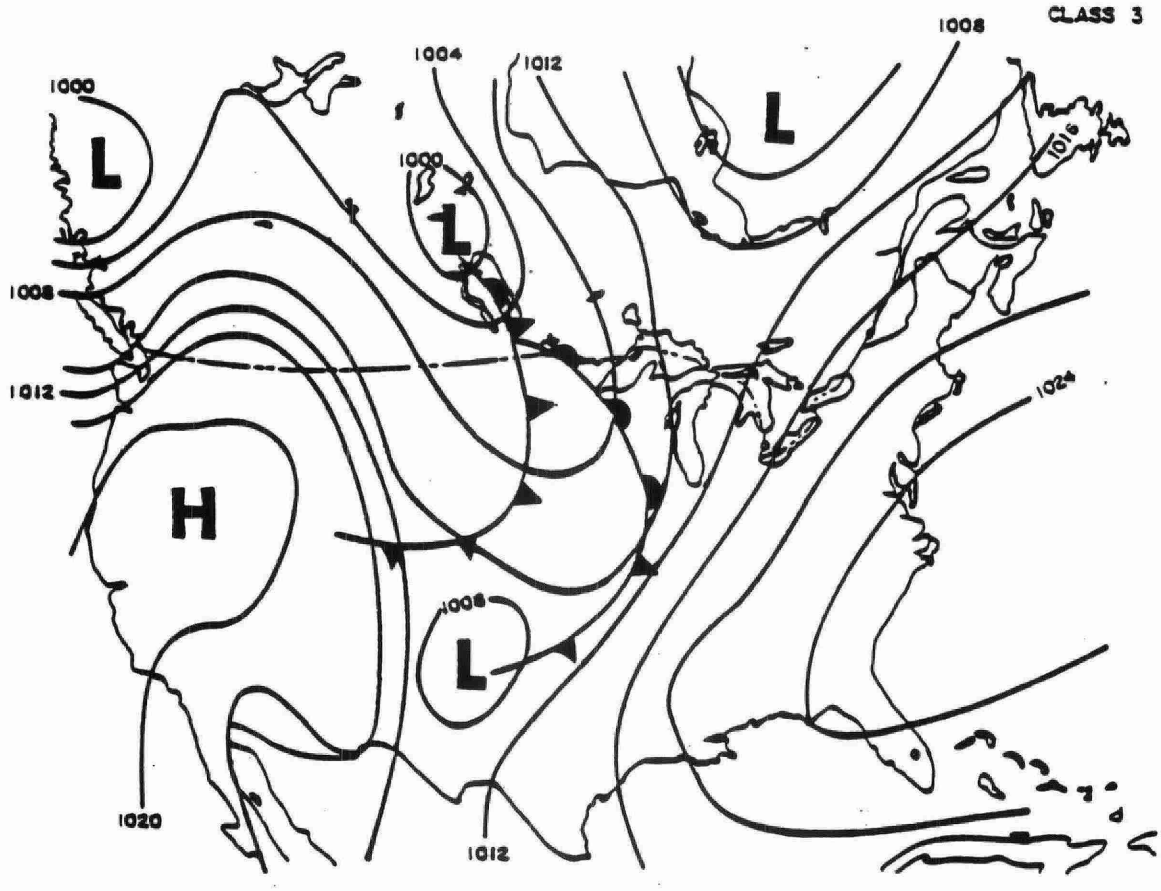


Figure 9

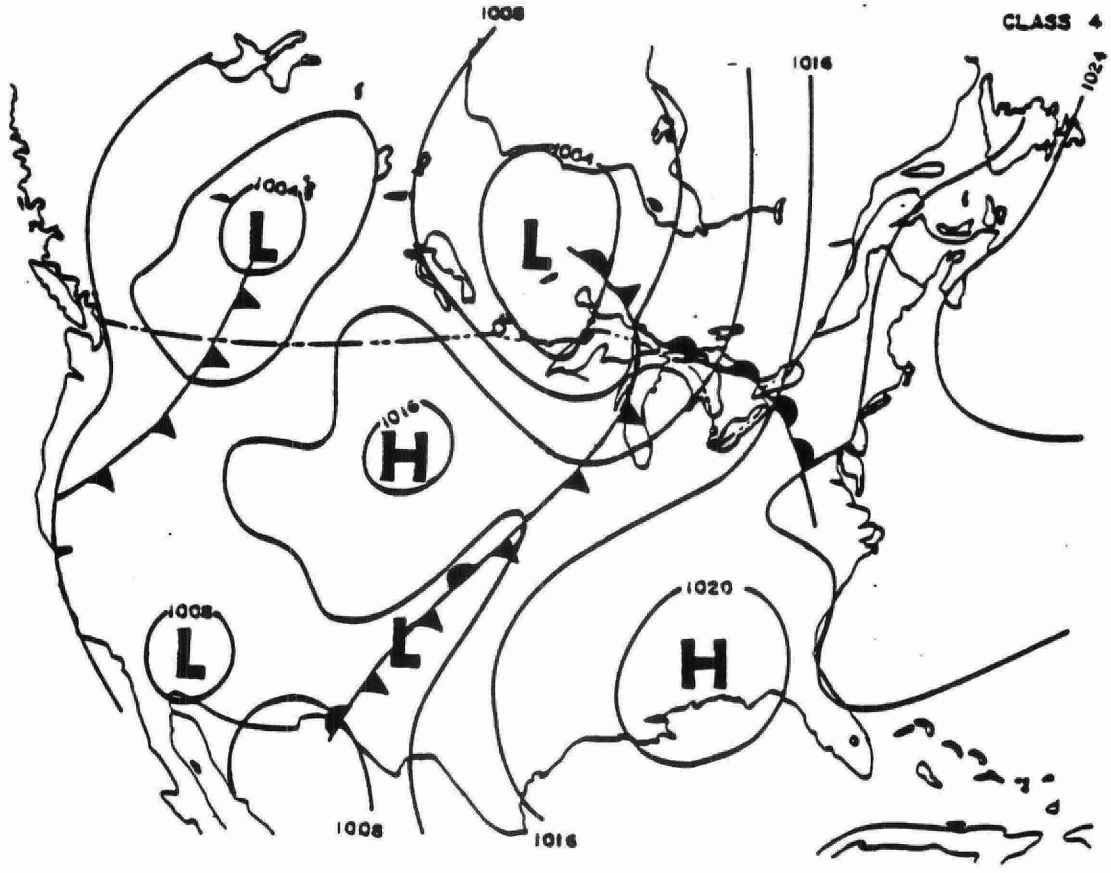


Figure 10

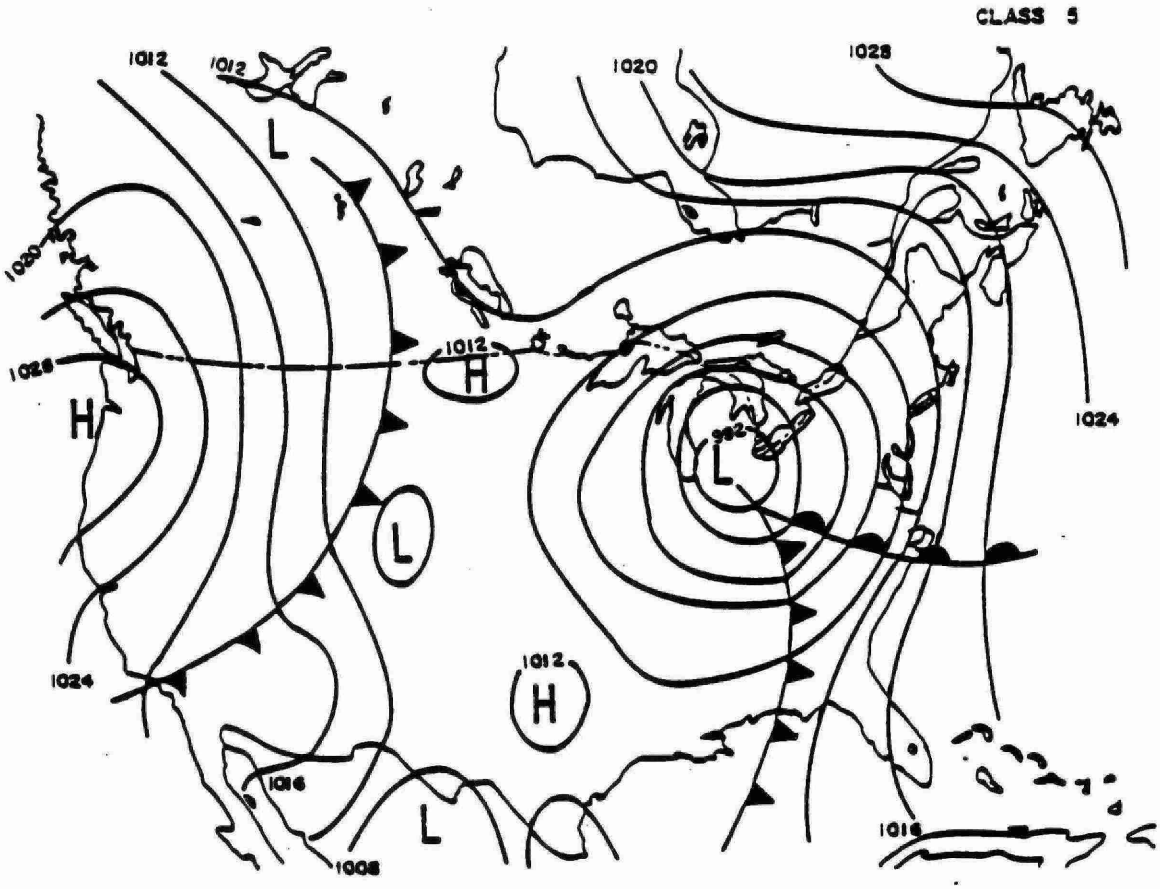


Figure 11

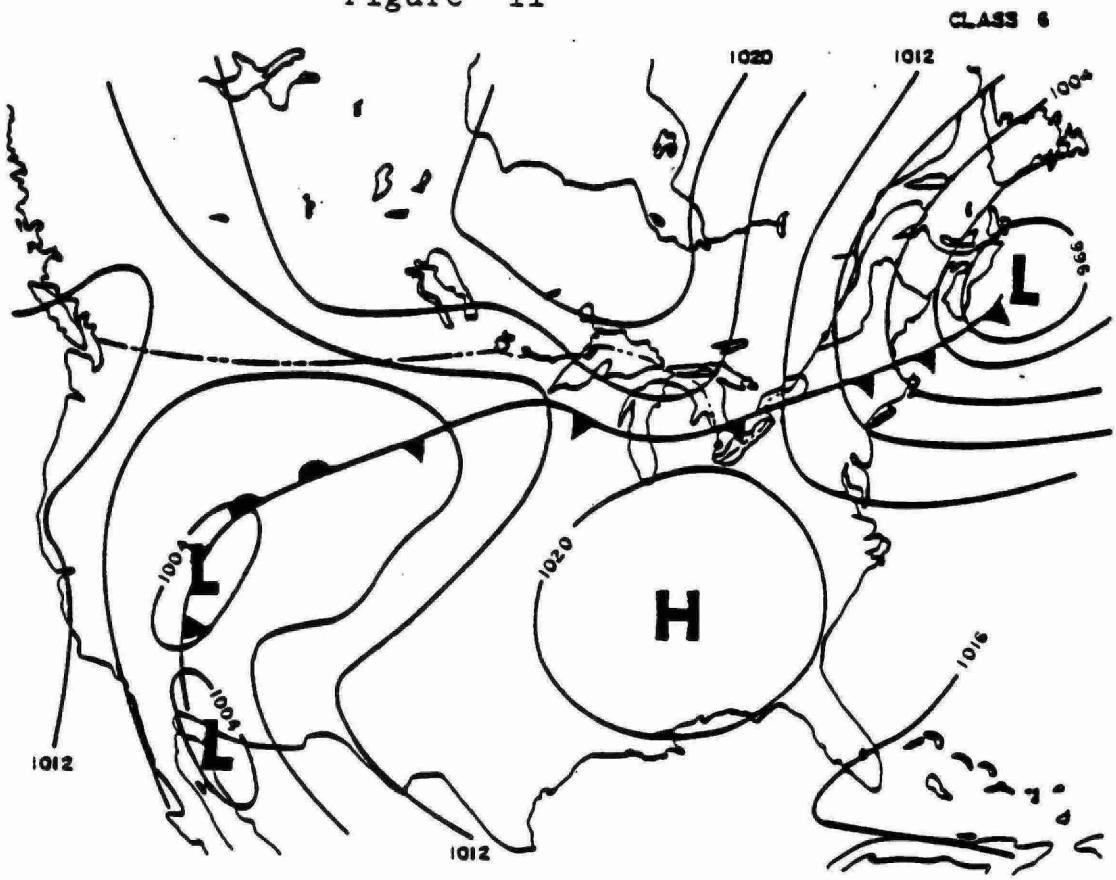


Figure 12

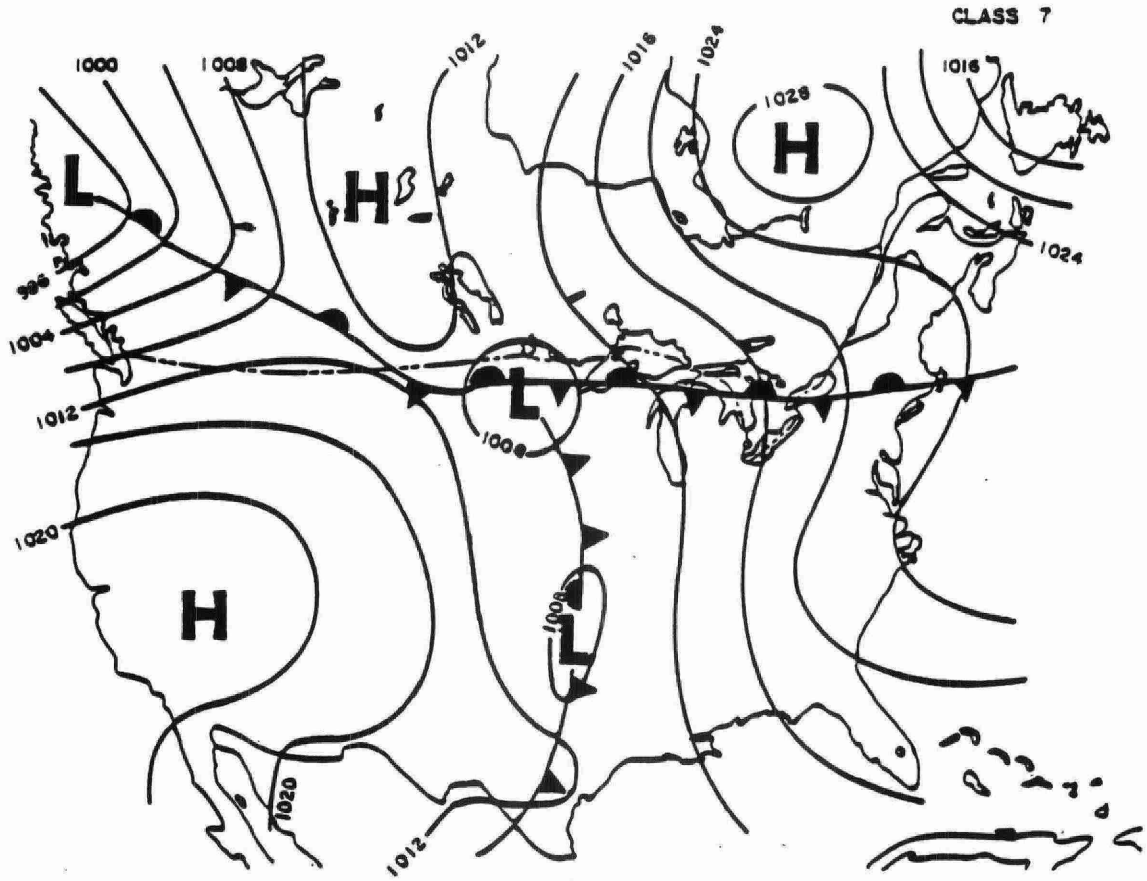
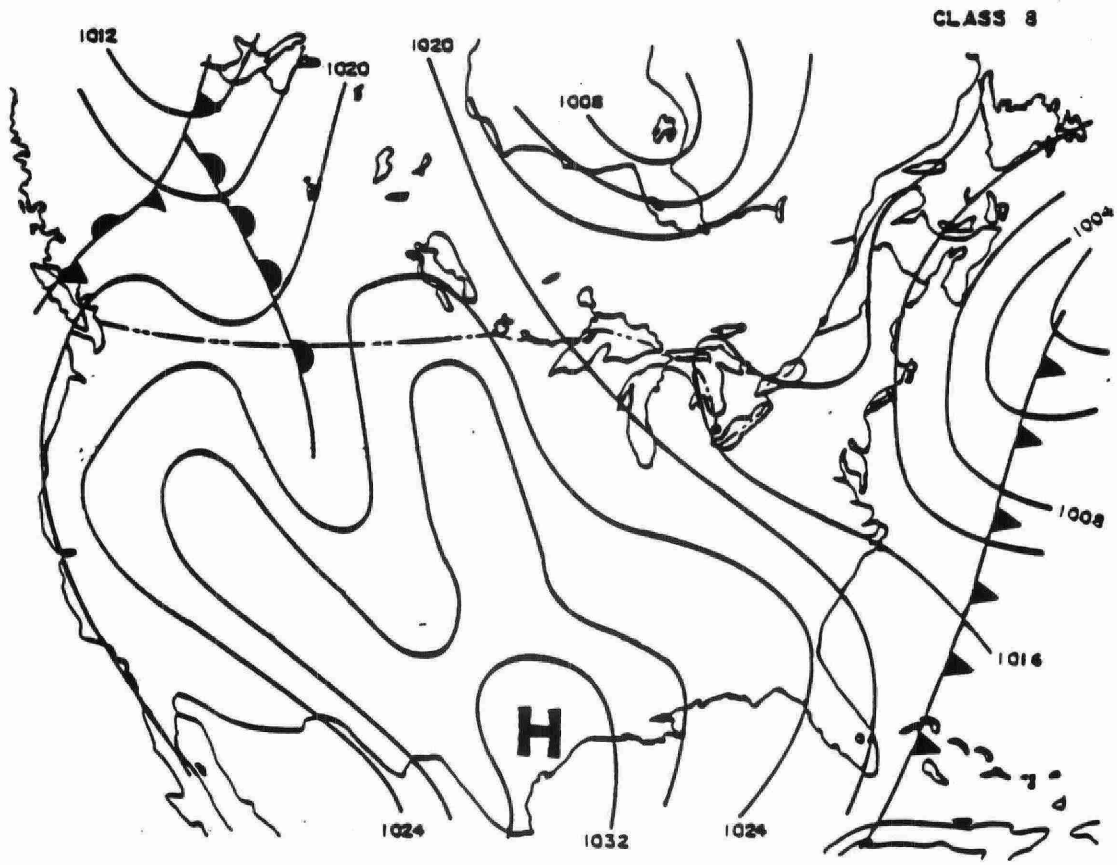
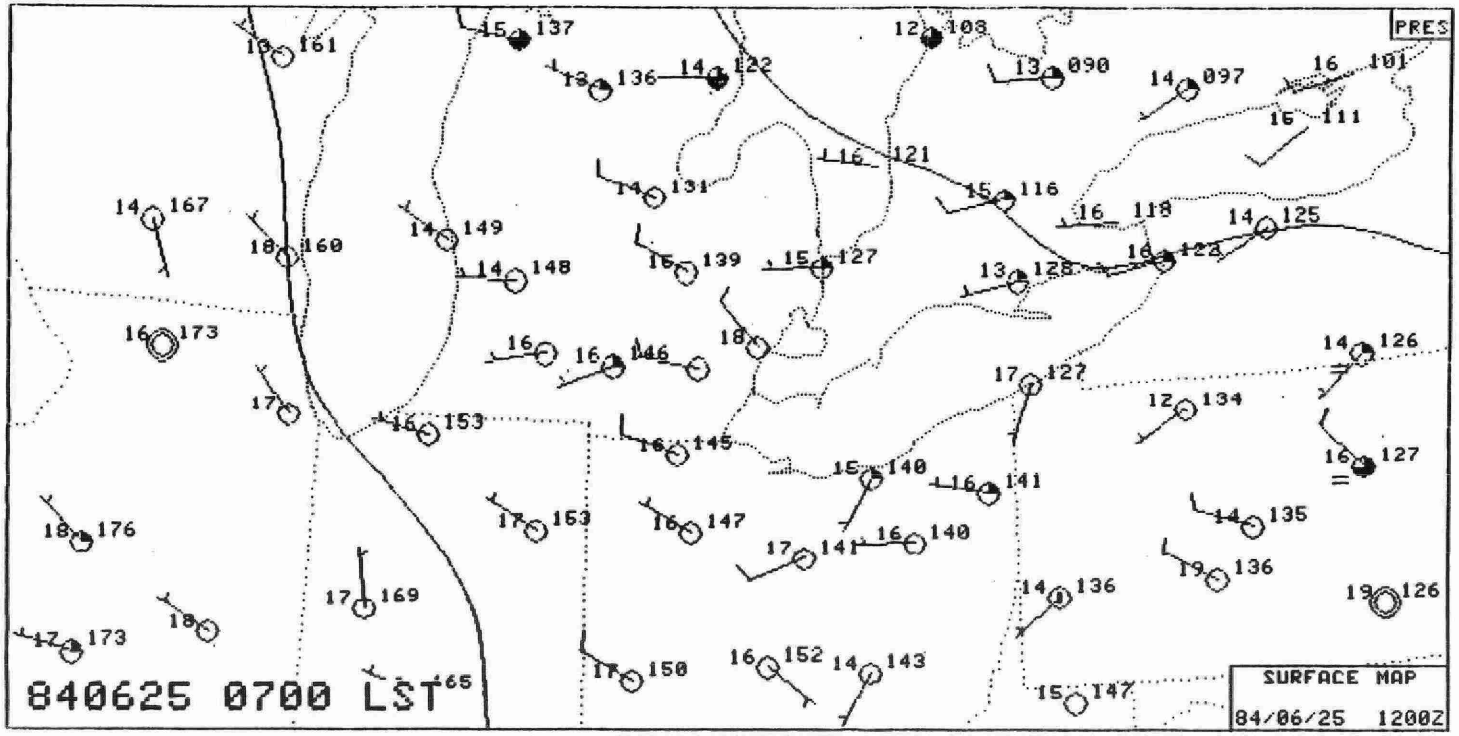


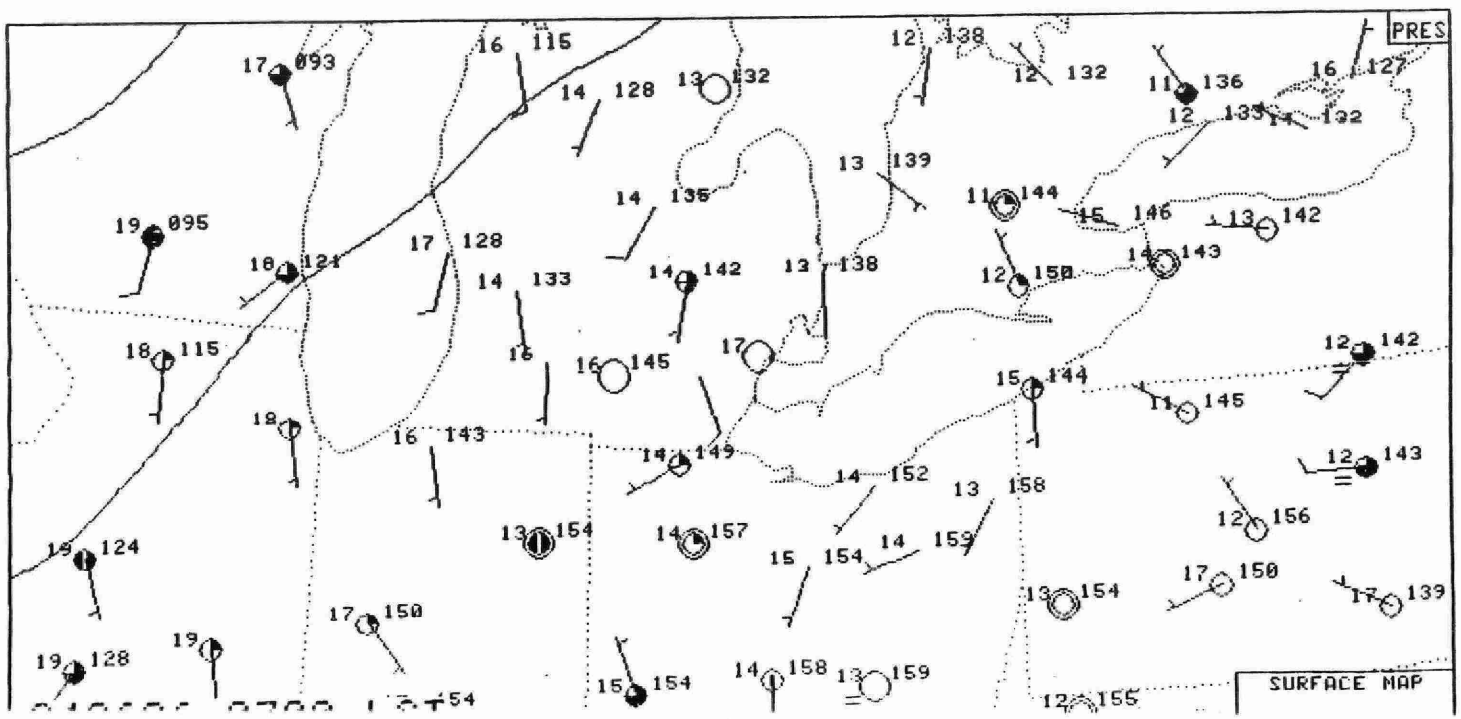
Figure 13

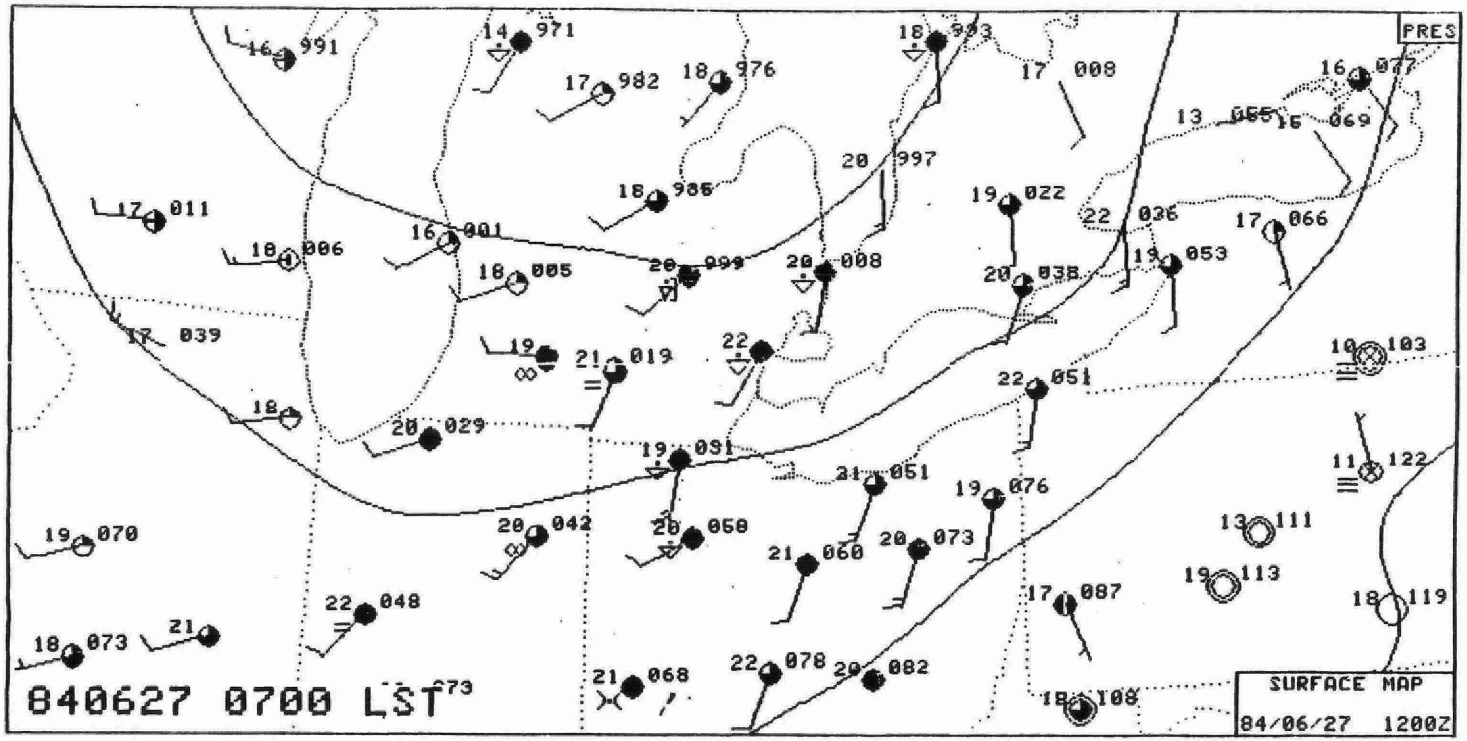


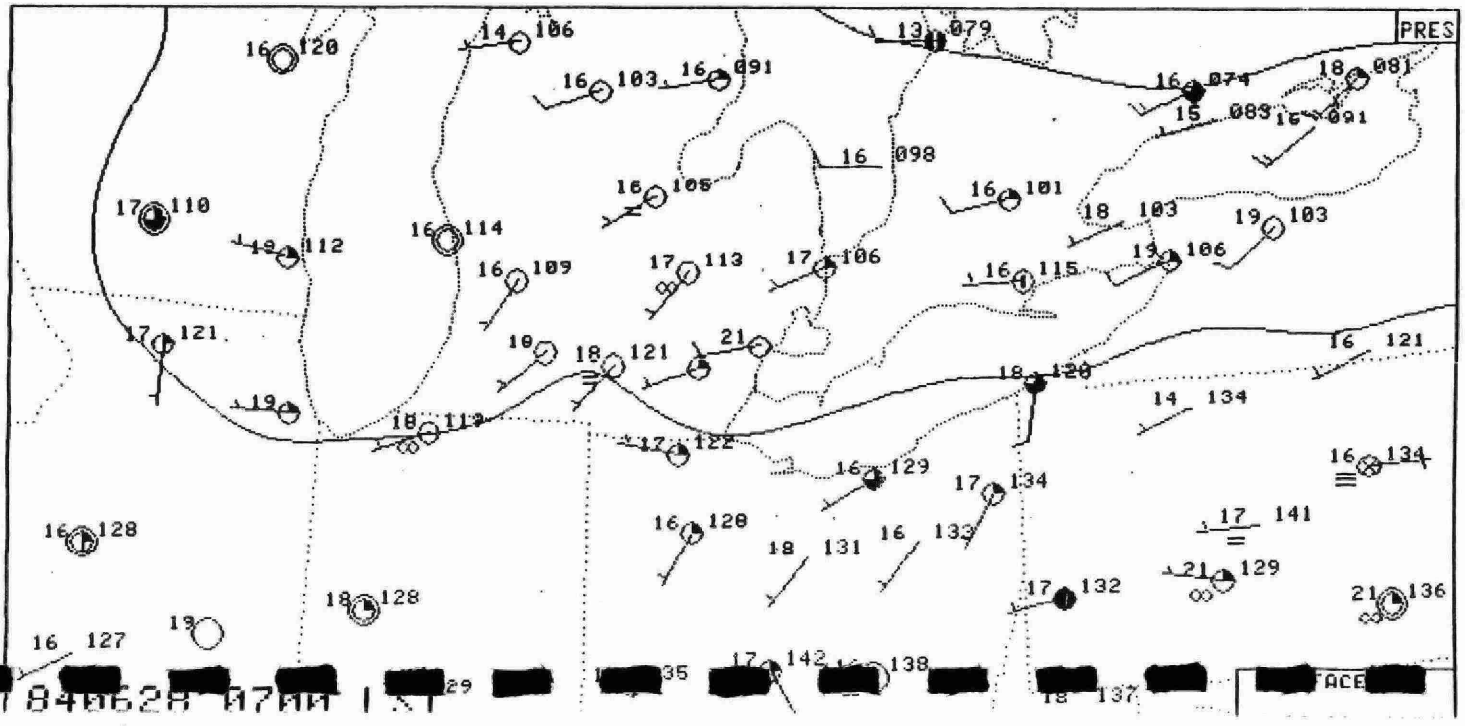
3.C **DAILY WEATHER MAPS FOR SARNIA AND VICINITY**
JUNE 25 - JULY 18, 1984

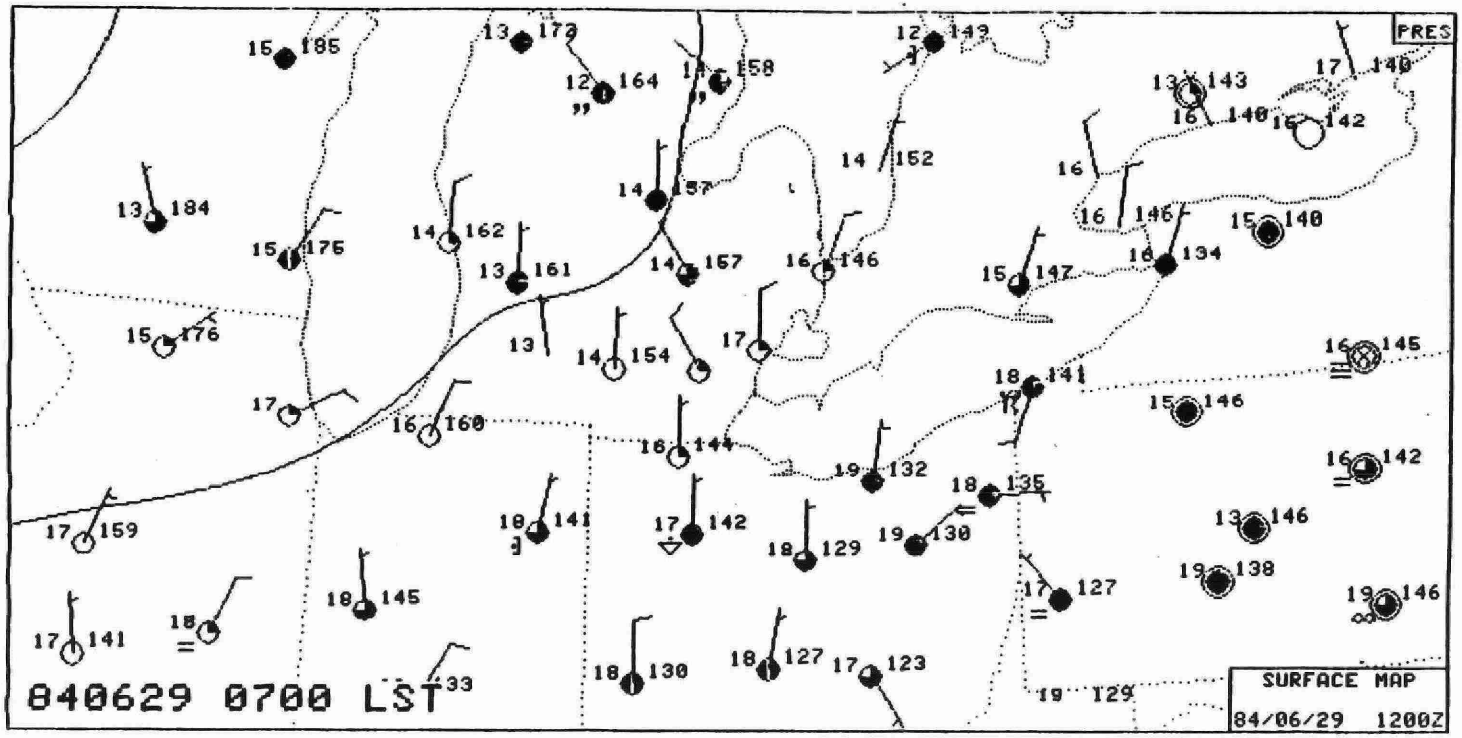
(ALL TIMES ARE EXPRESSED IN LOCAL STANDARD TIME (L.S.T.))

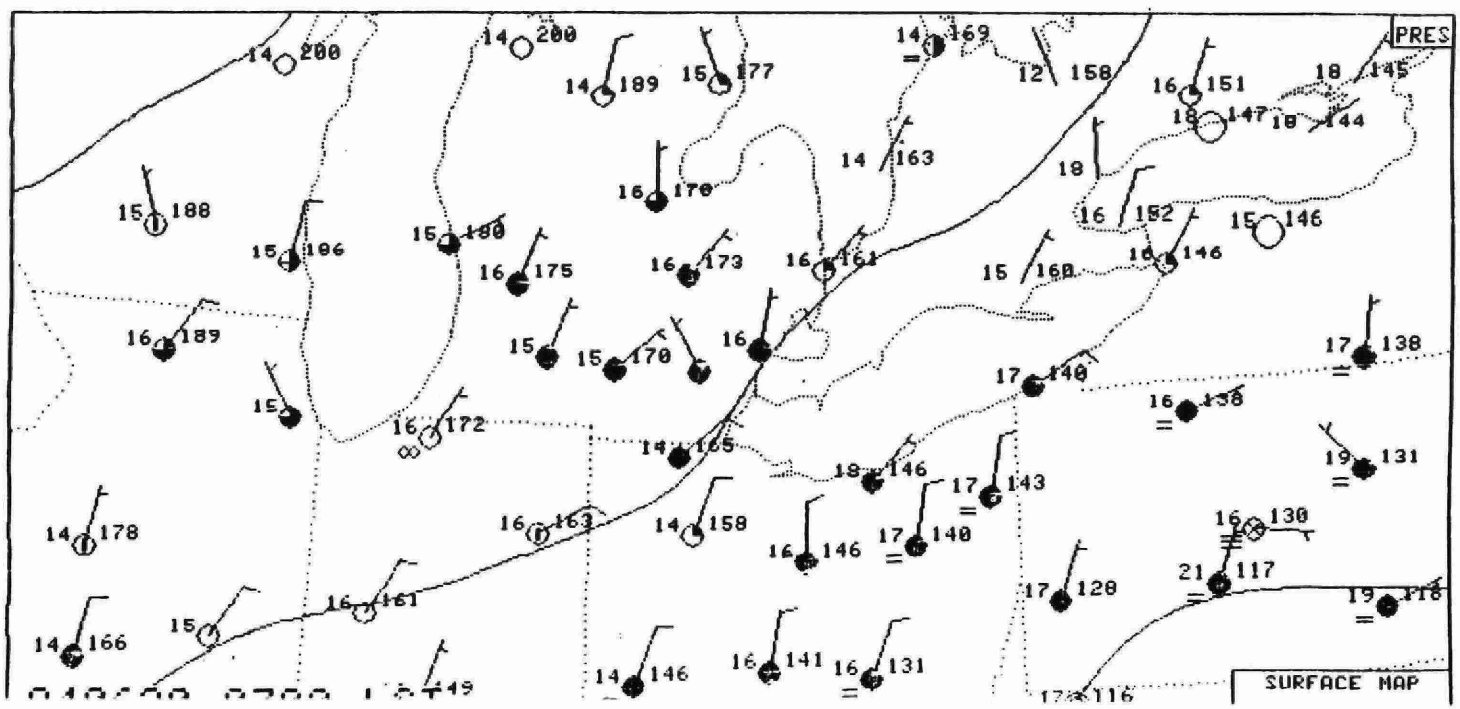

PRES
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SURFACE MAP
84/06/25 1200Z

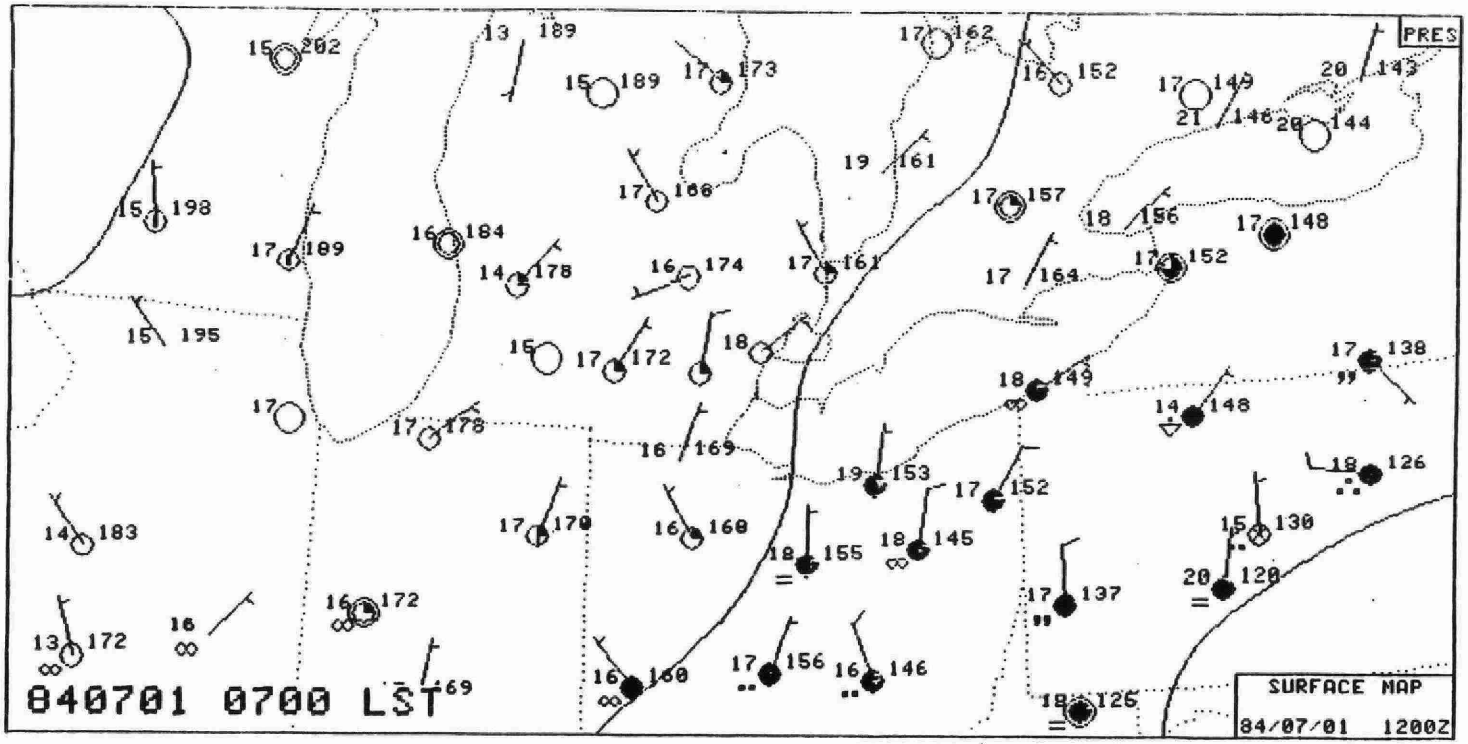

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SURFACE MAP

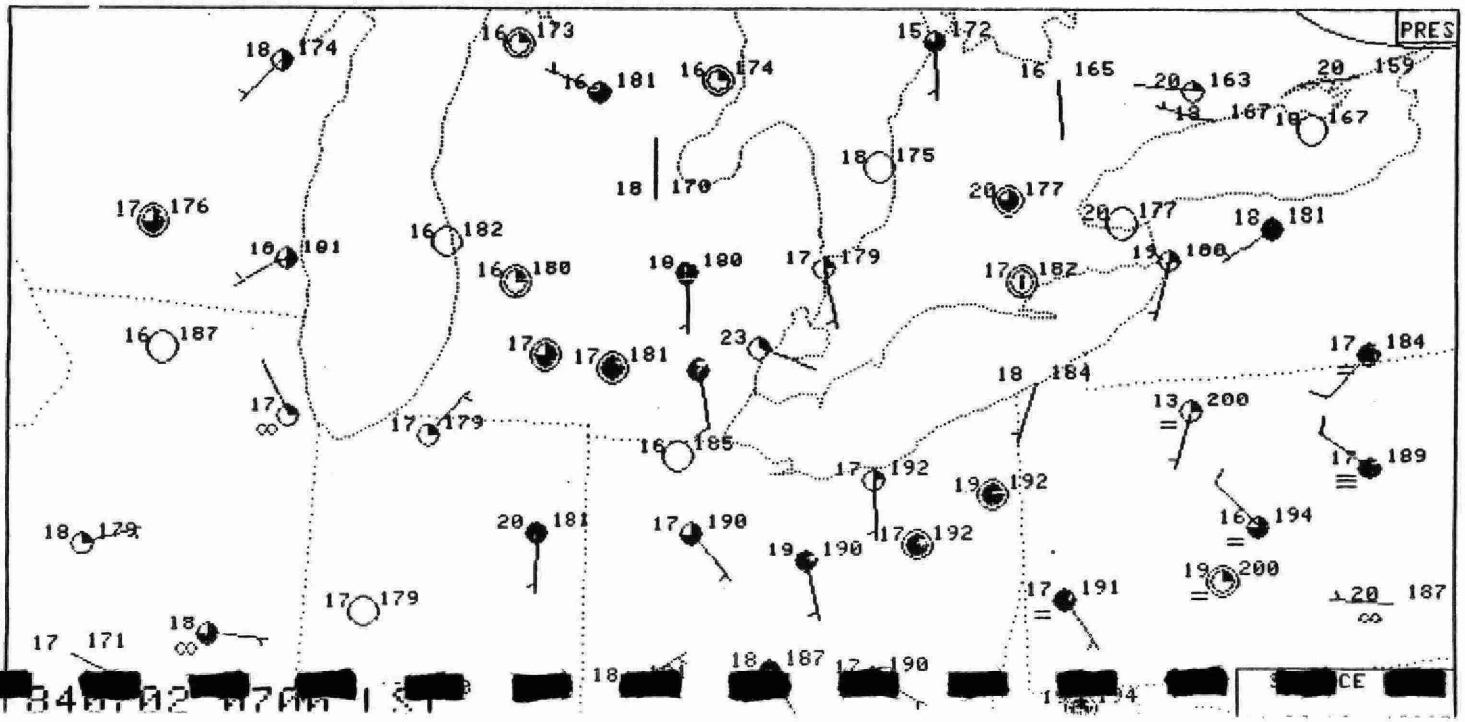

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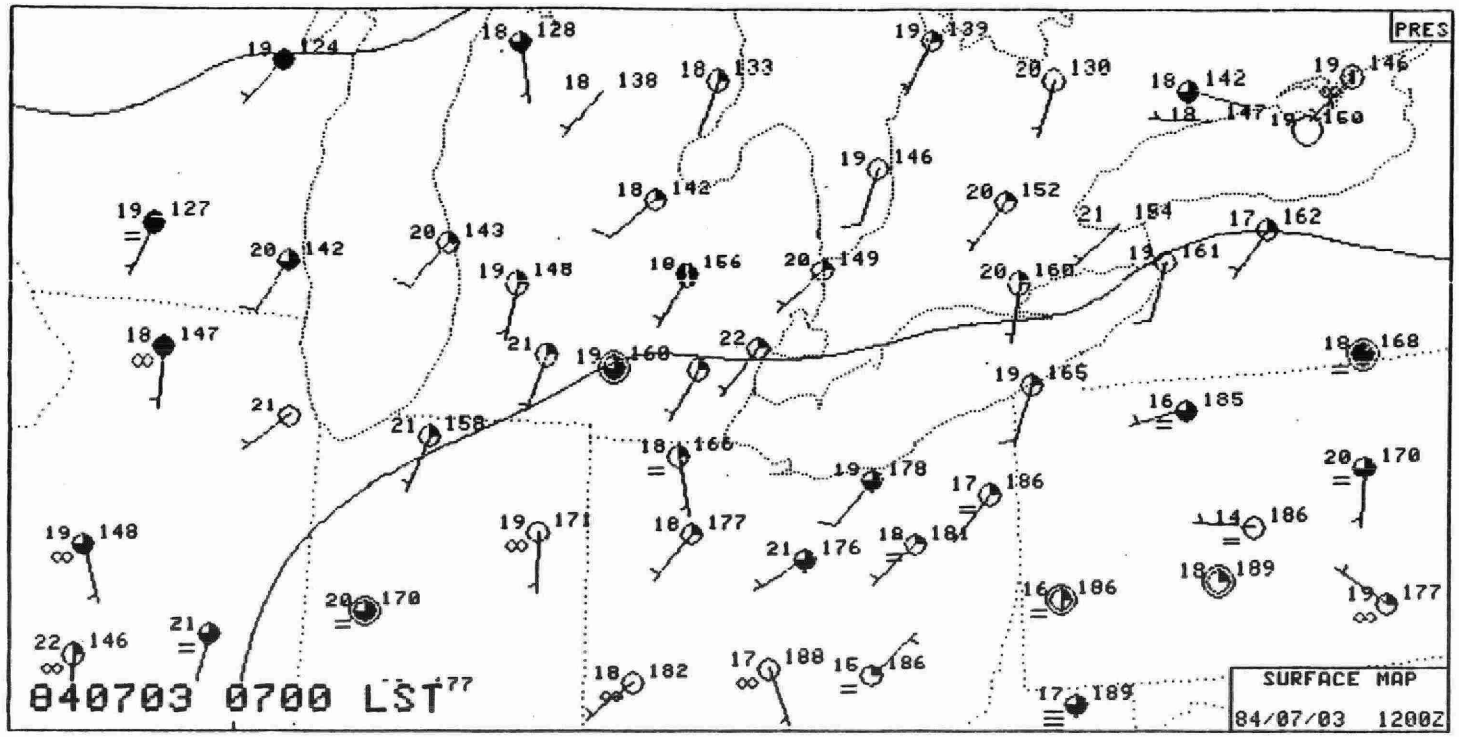

PRES
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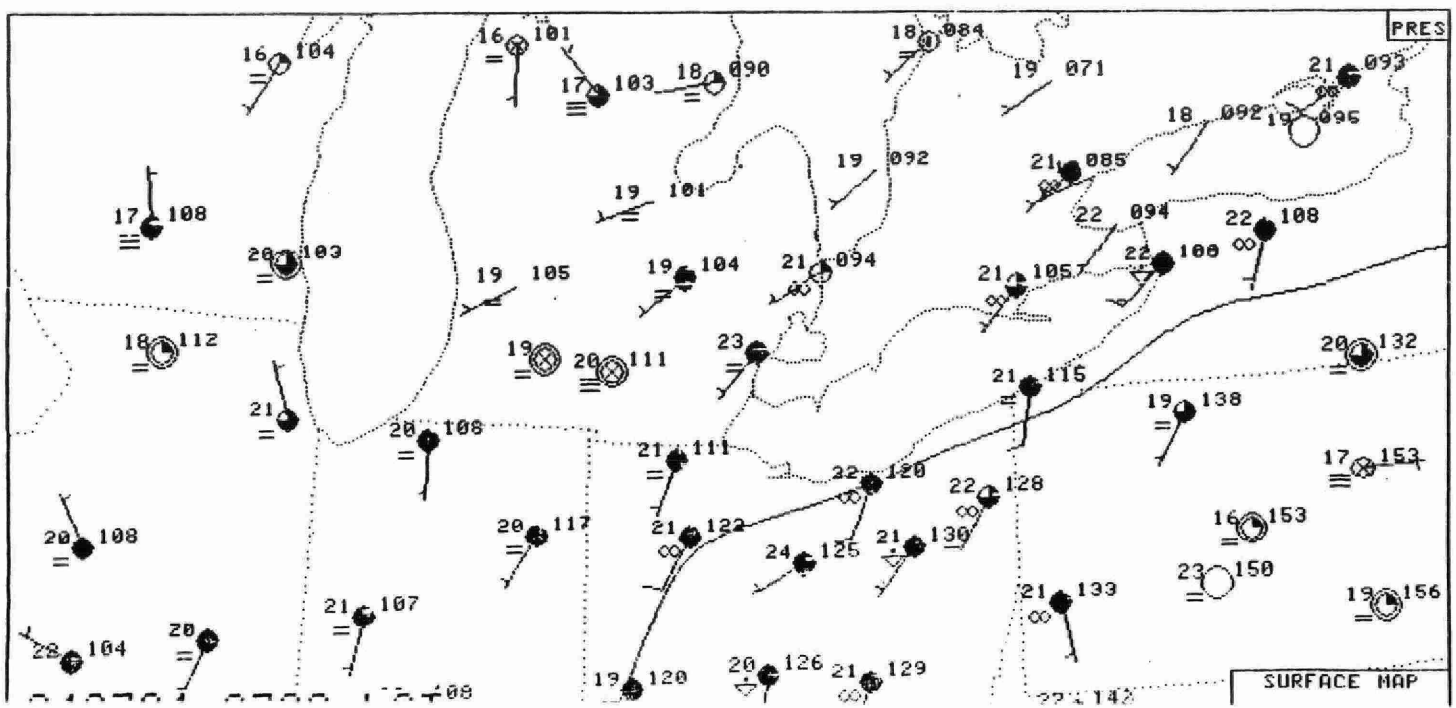

PRES
840629 0700 LST
SURFACE MAP
84/06/29 1200Z

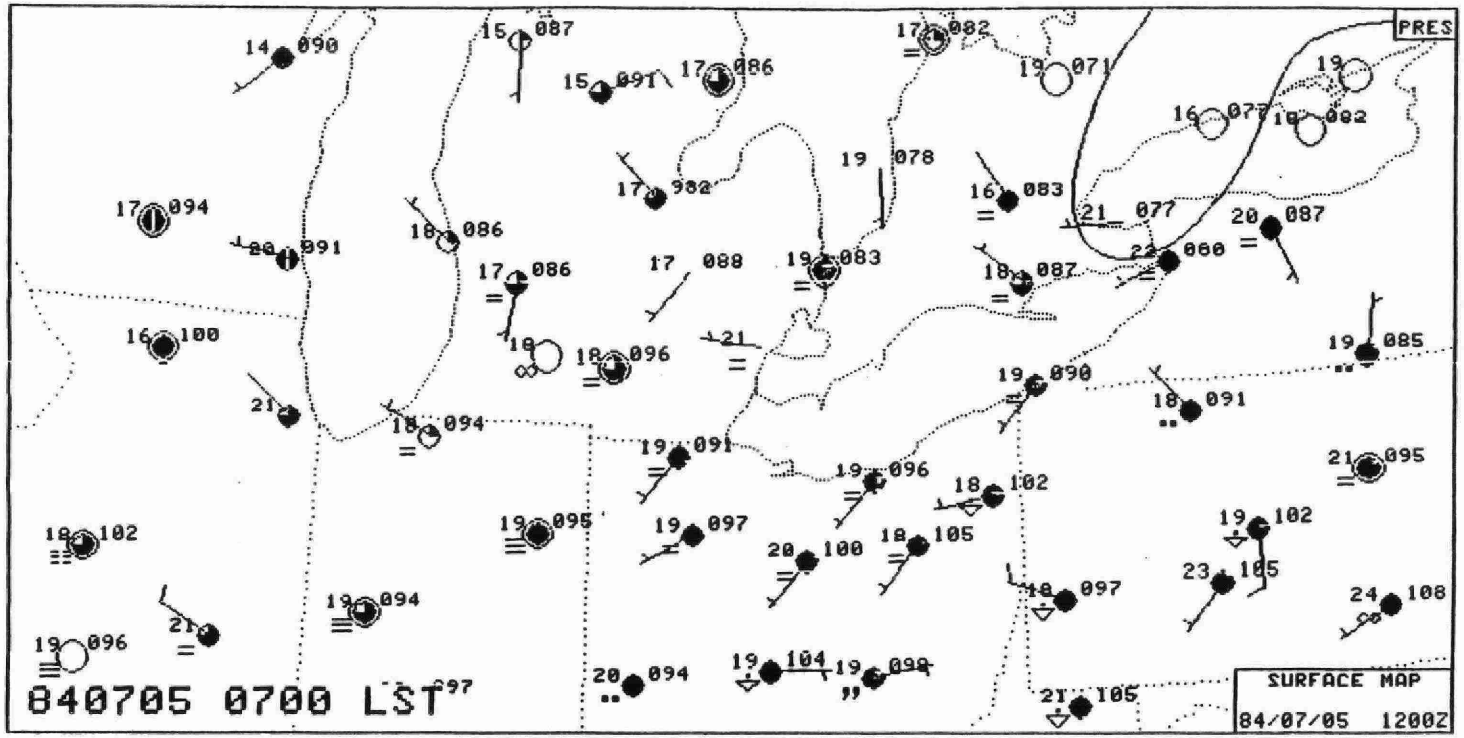

PRES
SURFACE MAP

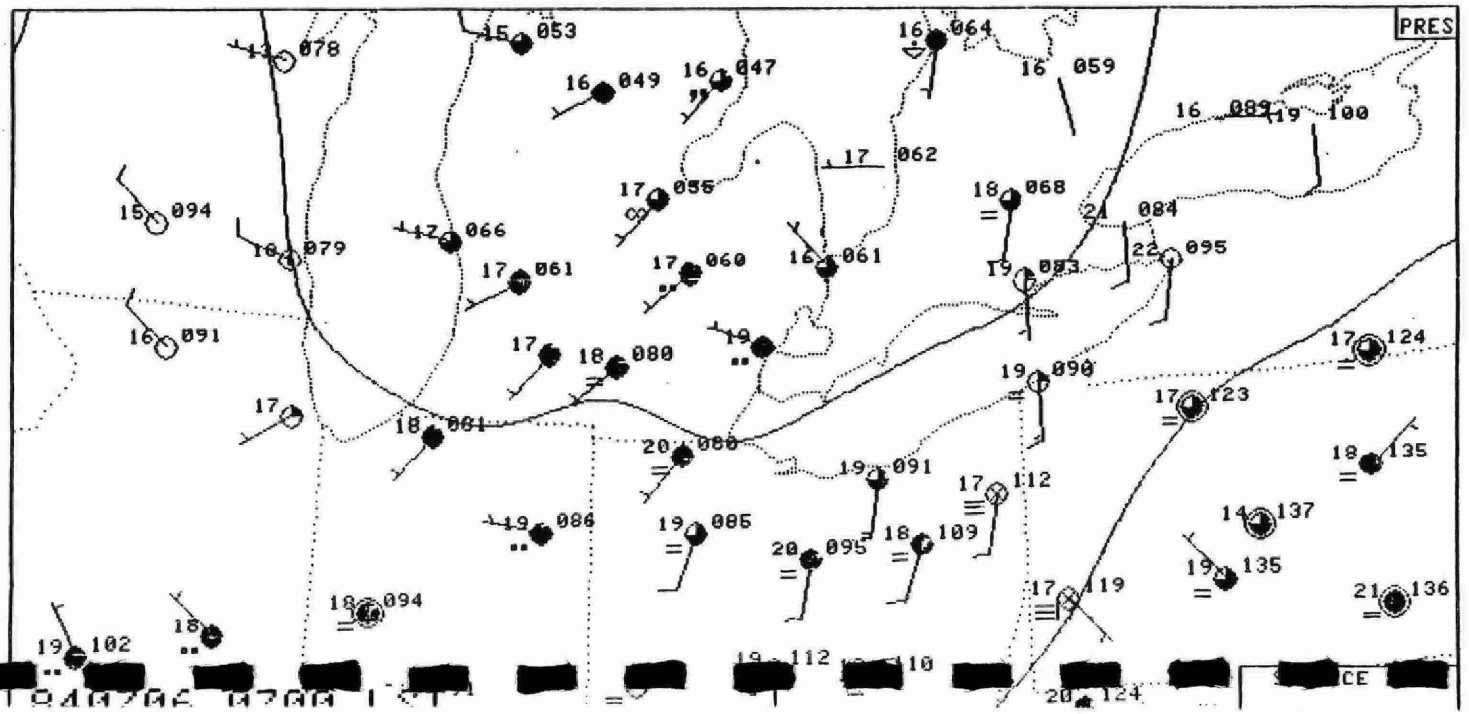

PRES
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SURFACE MAP
84/07/01 1200Z

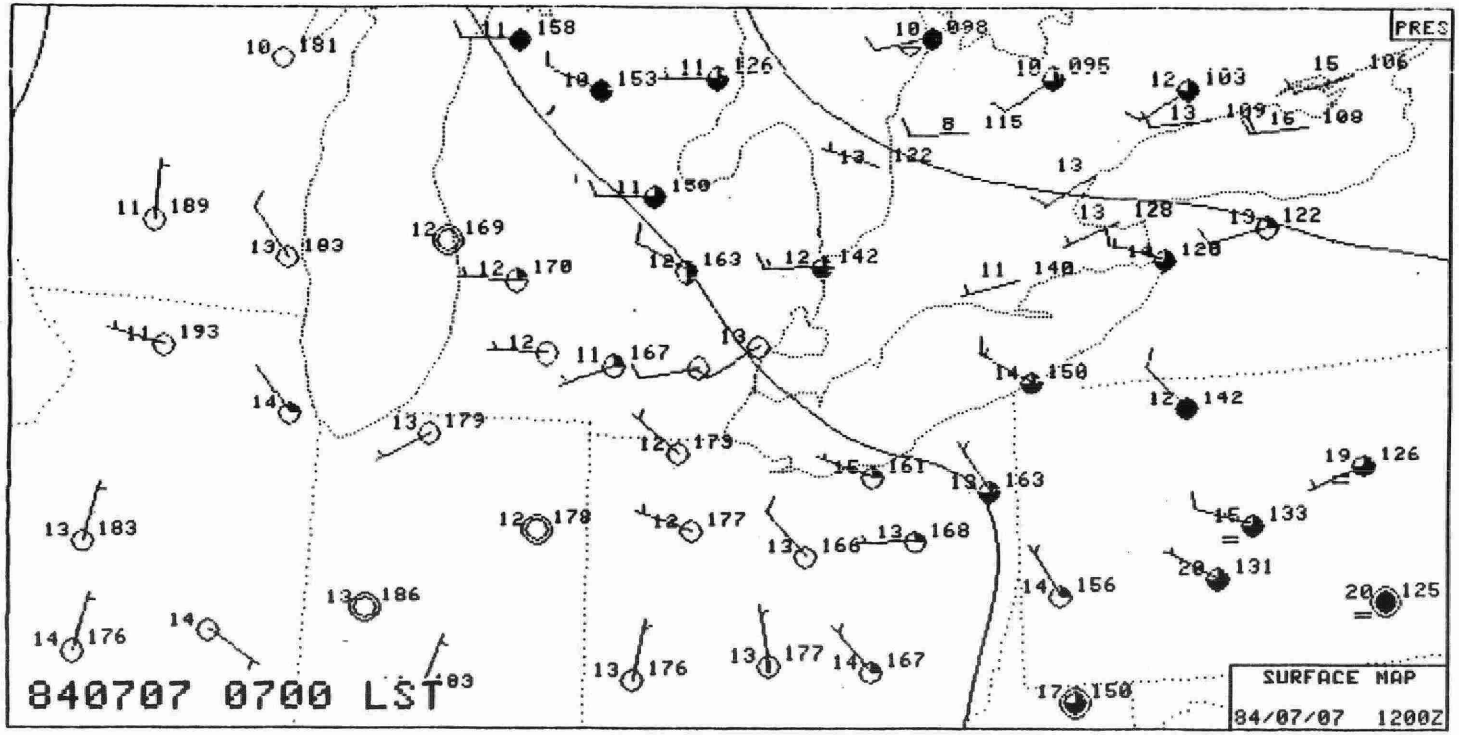

PRES

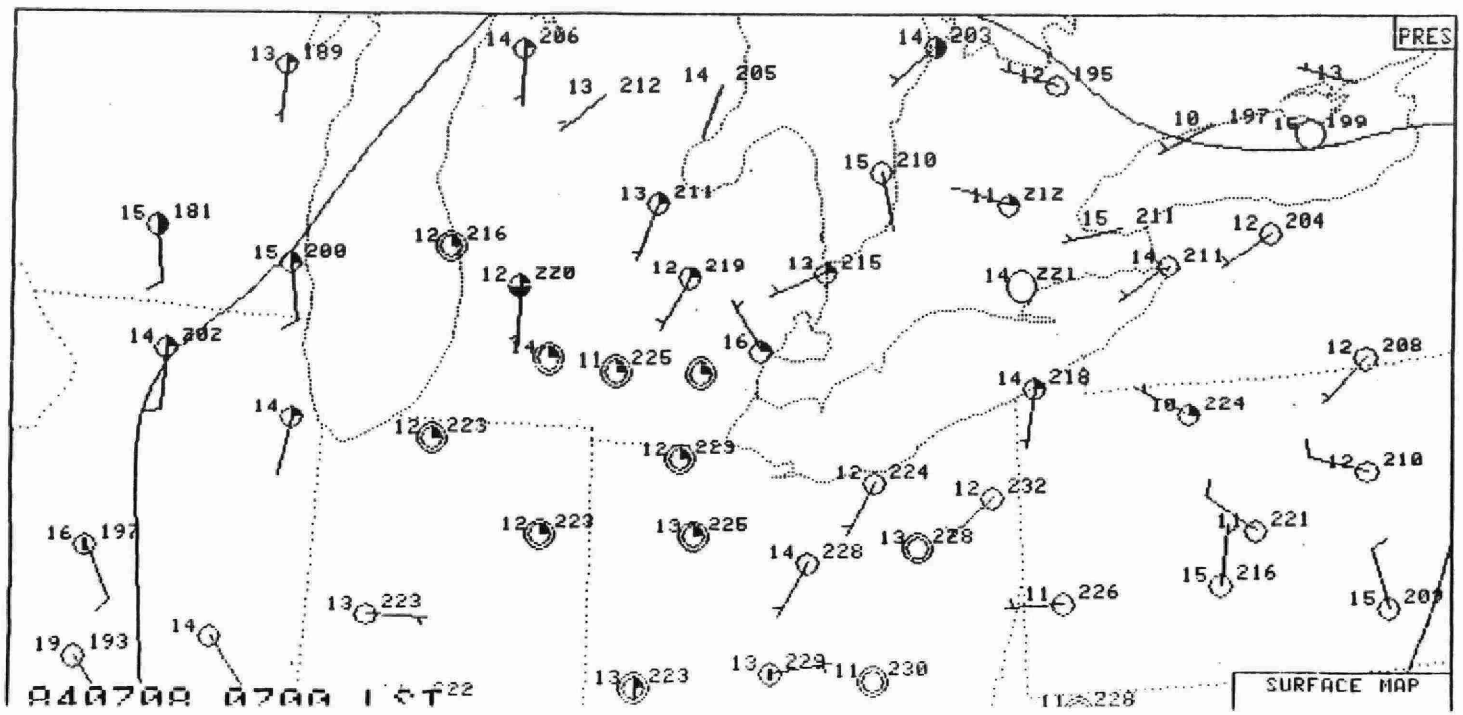

PRES
840703 0700 LST
SURFACE MAP
84/07/03 1200Z

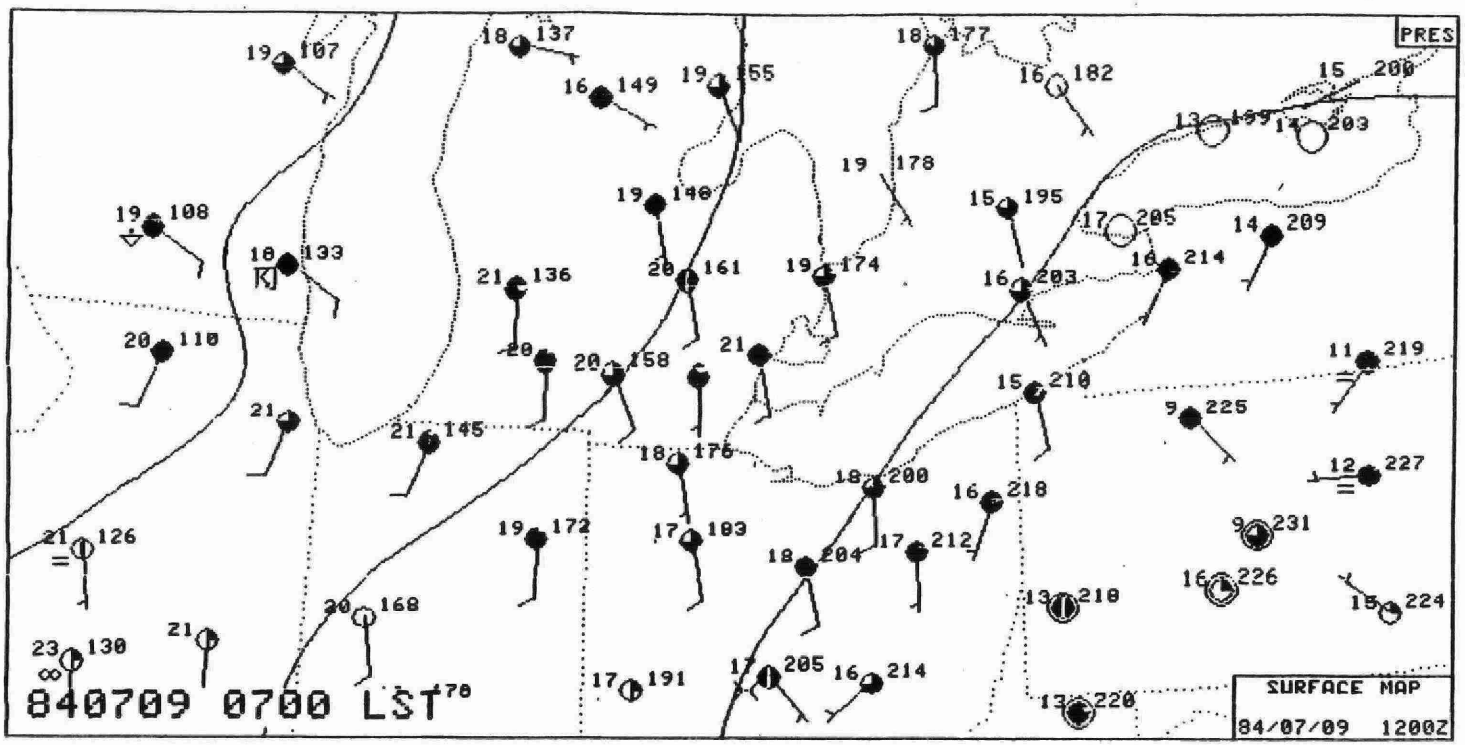

PRES
SURFACE MAP

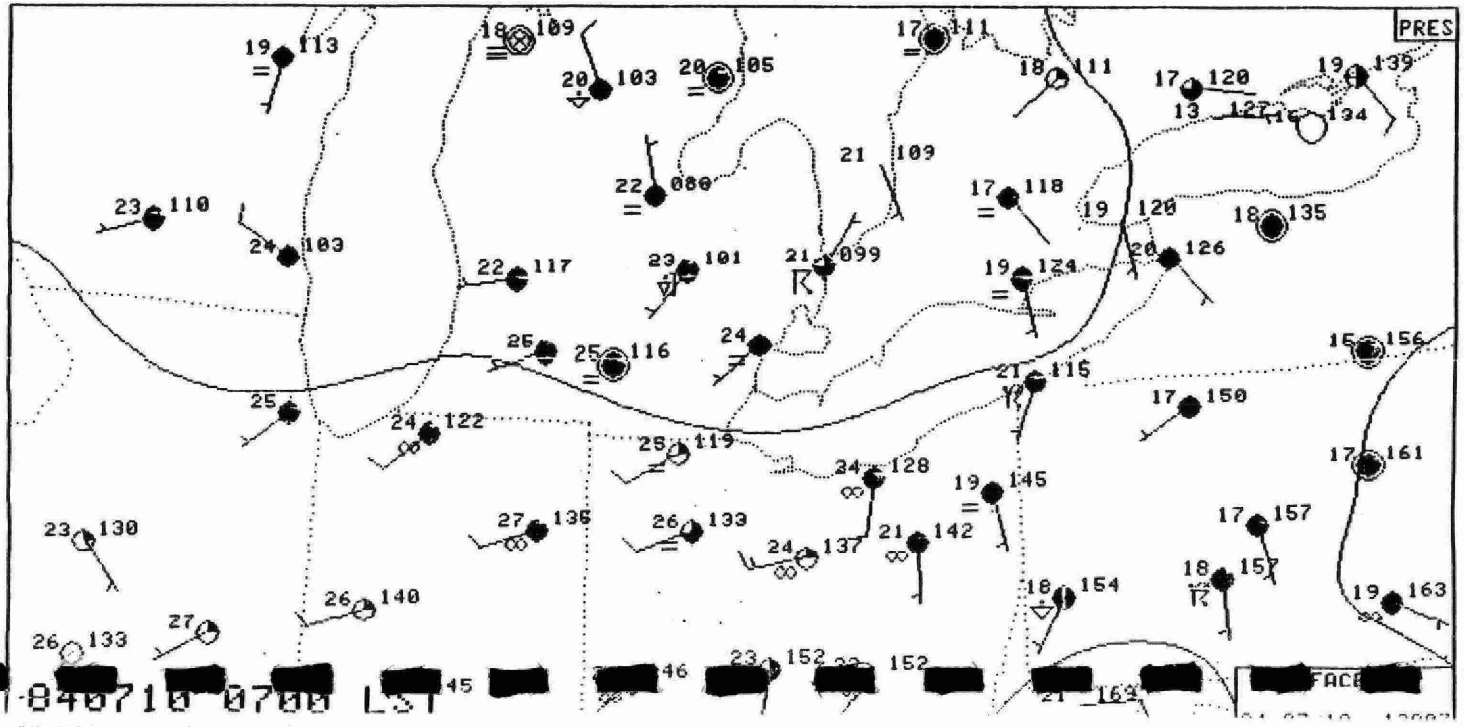

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SURFACE MAP
84/07/05 1200Z

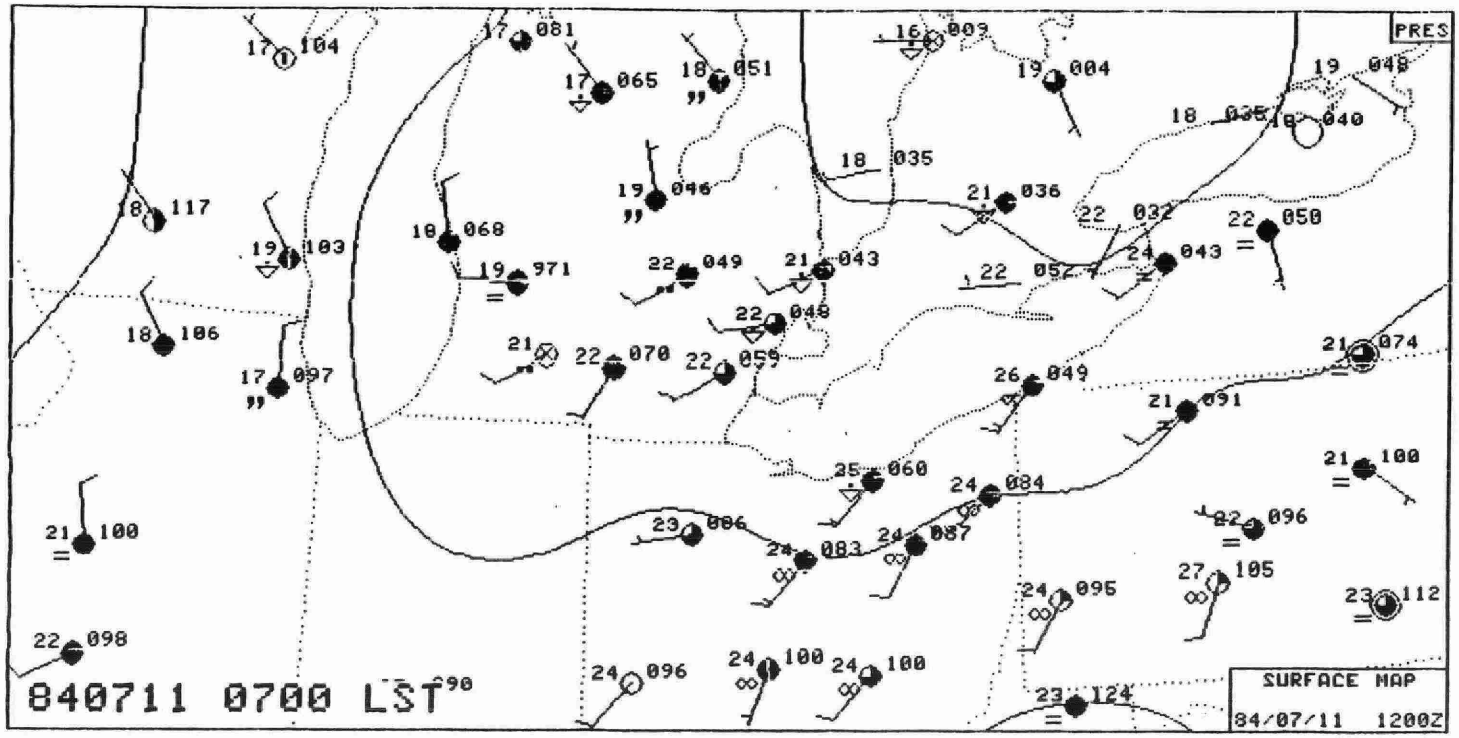

PRES

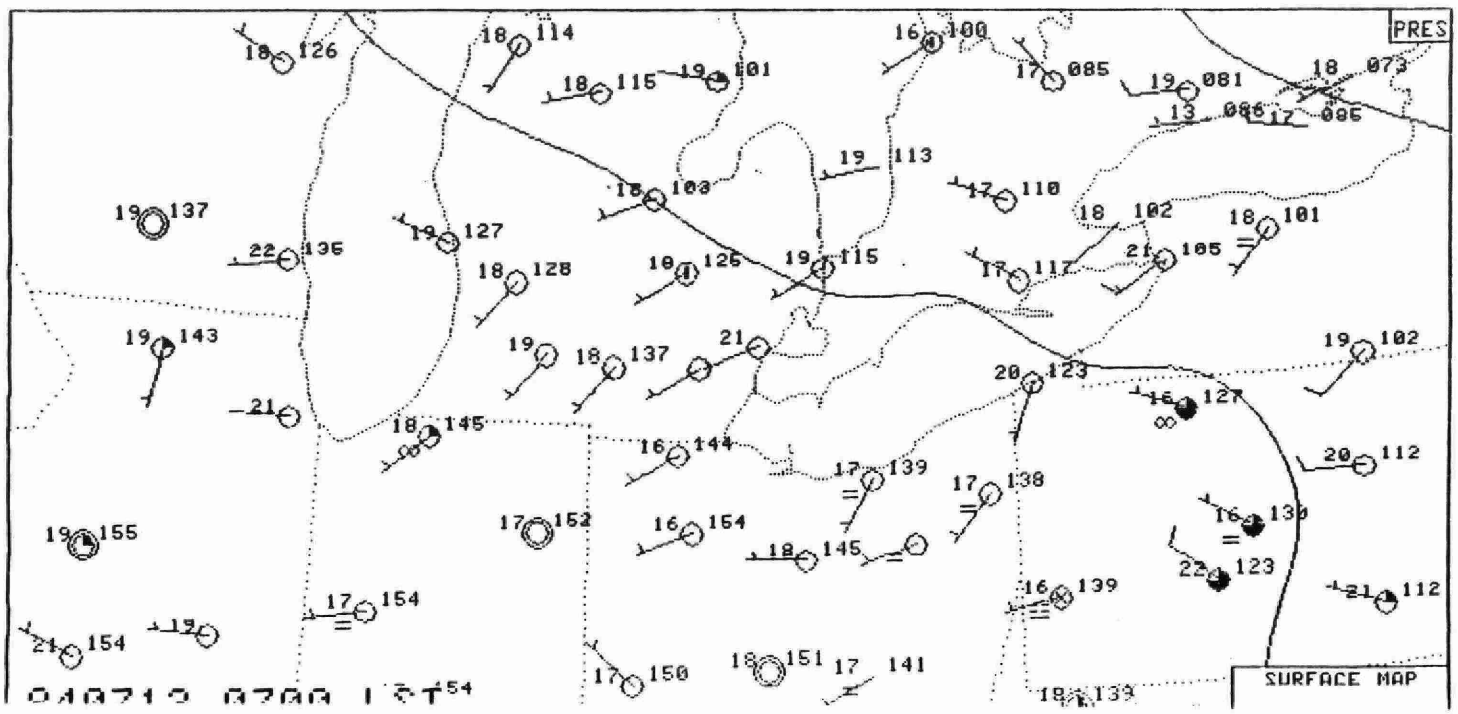

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SURFACE MAP
84/07/07 1200Z

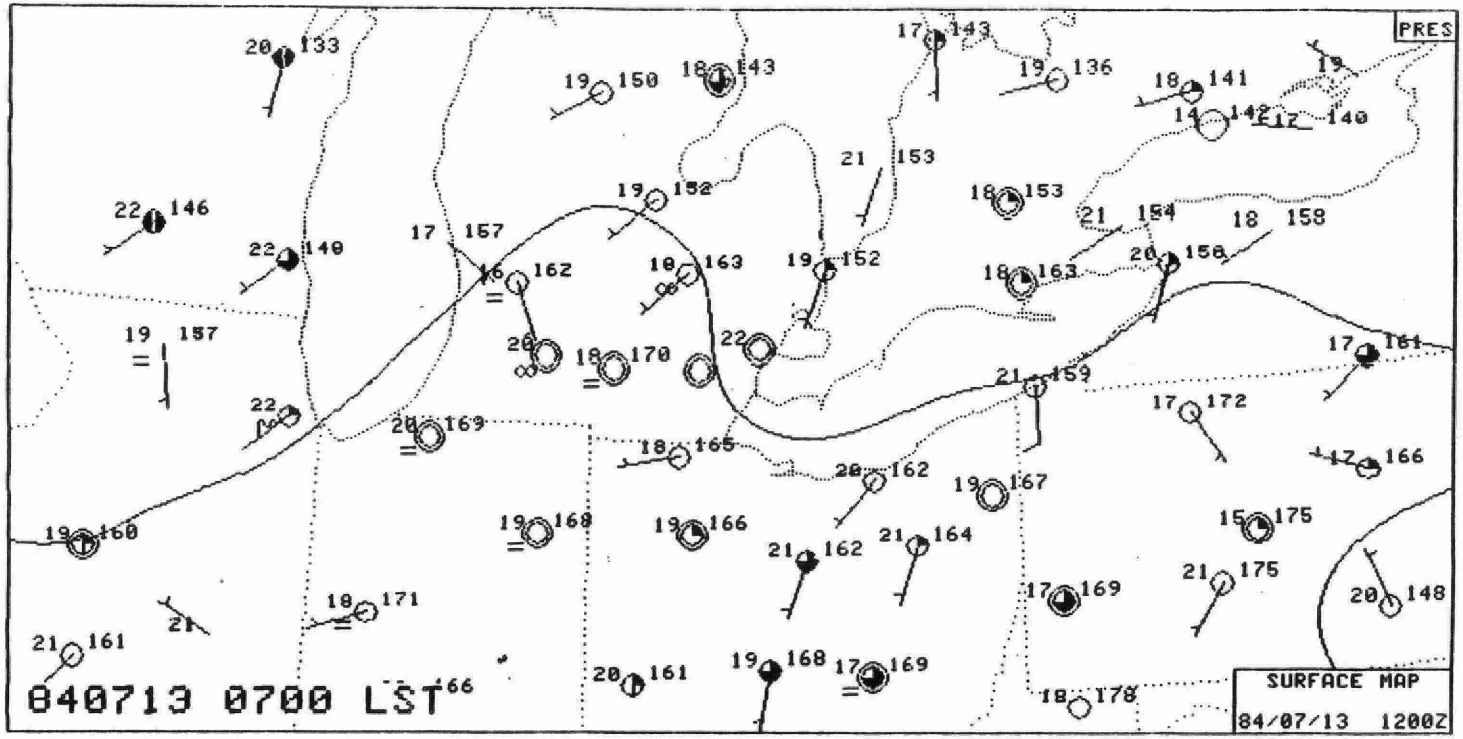

PRES
SURFACE MAP

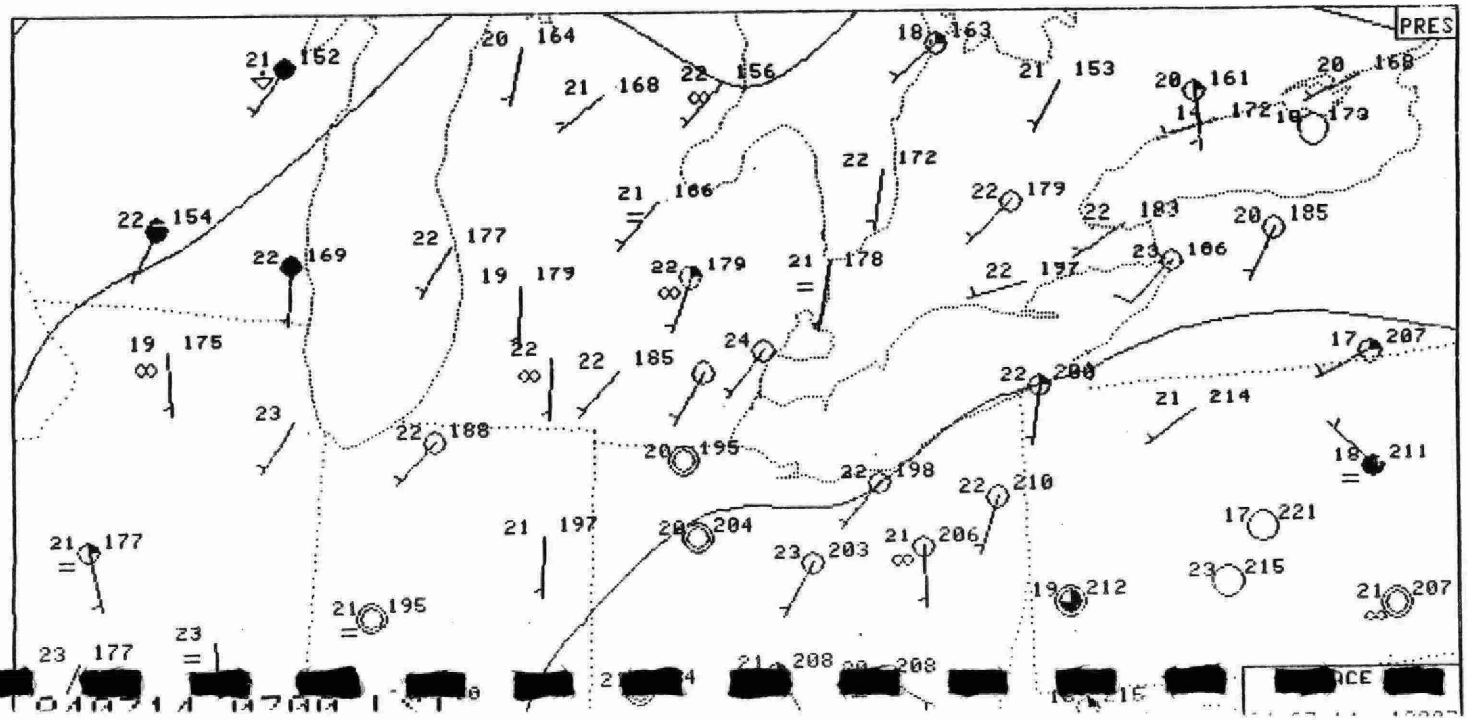

PRES
840709 0700 LST
SURFACE MAP
84/07/09 1200Z

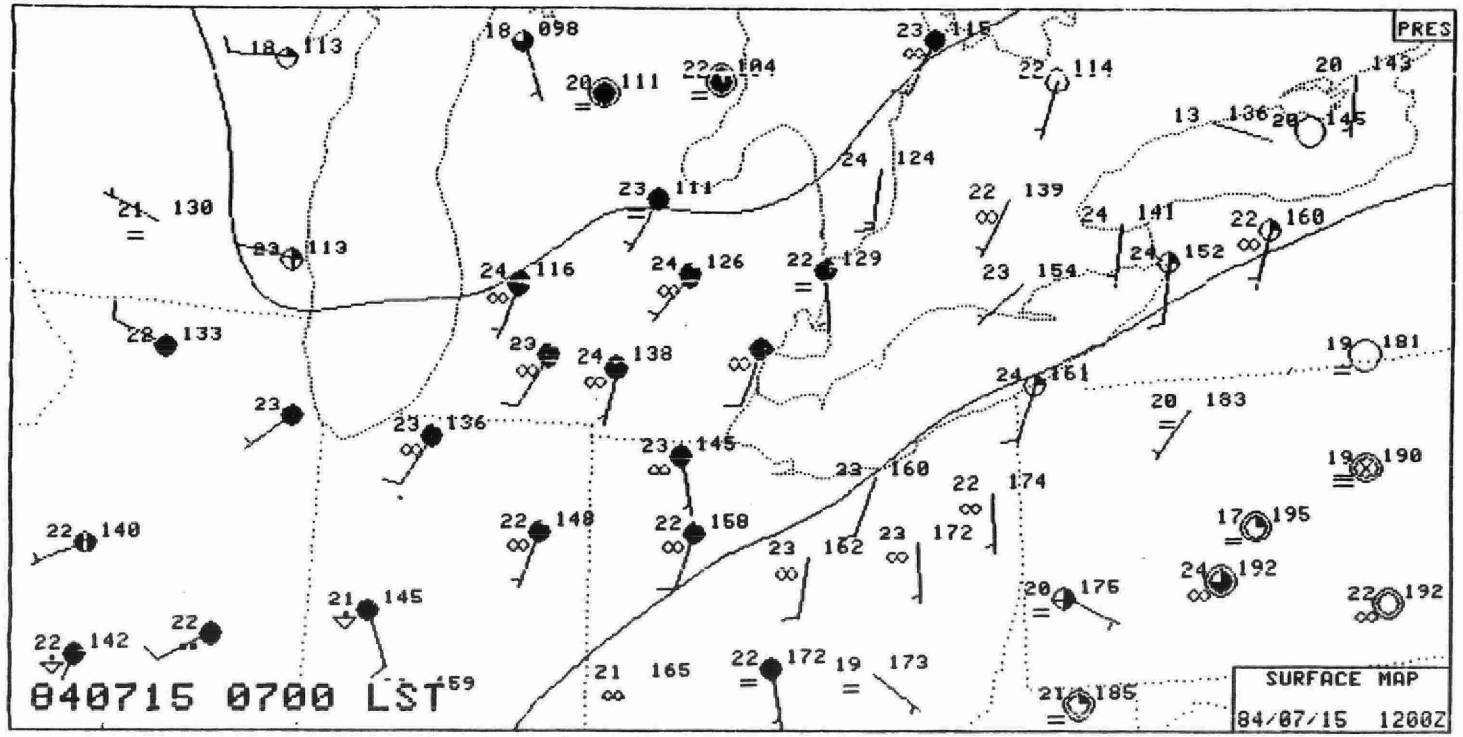

PRES
840710 0700 LST

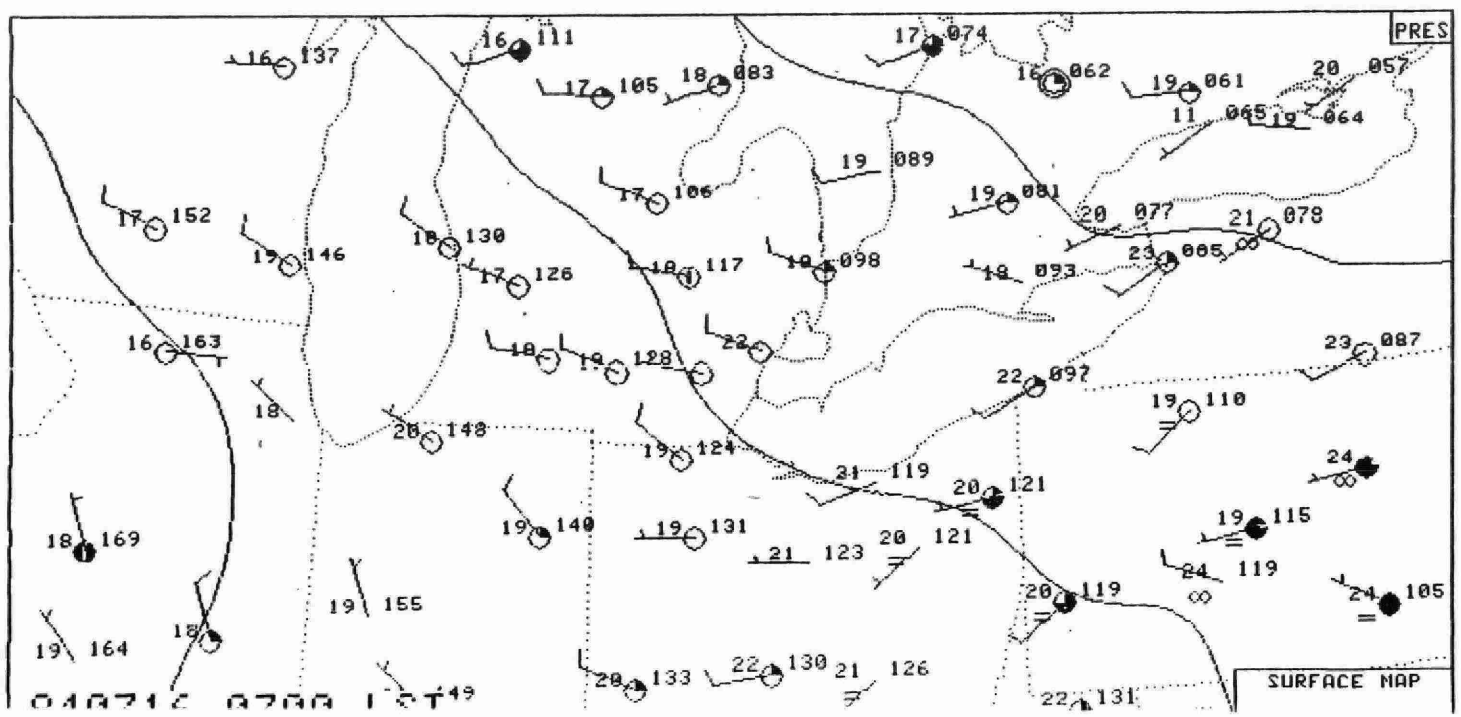

PRES
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SURFACE MAP
84/07/11 1200Z

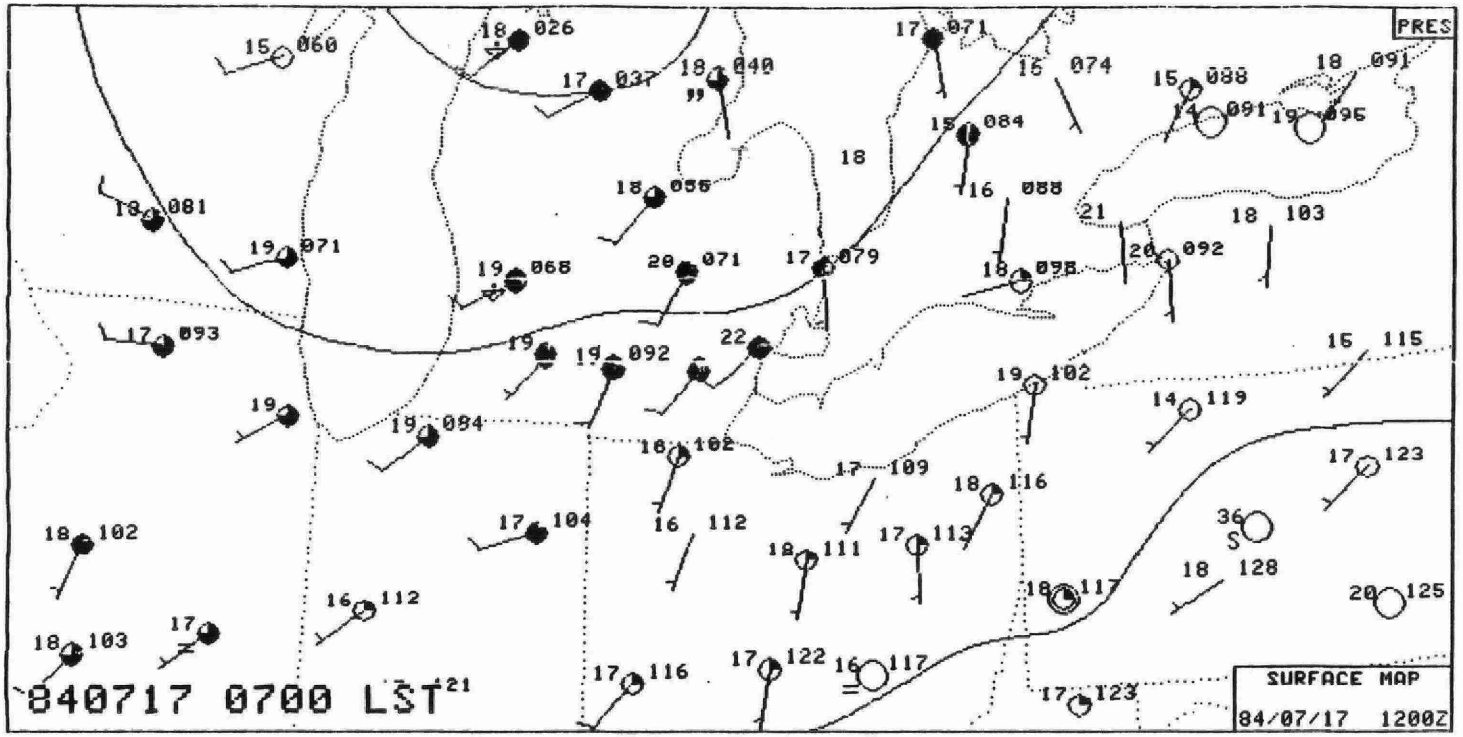

PRES
SURFACE MAP

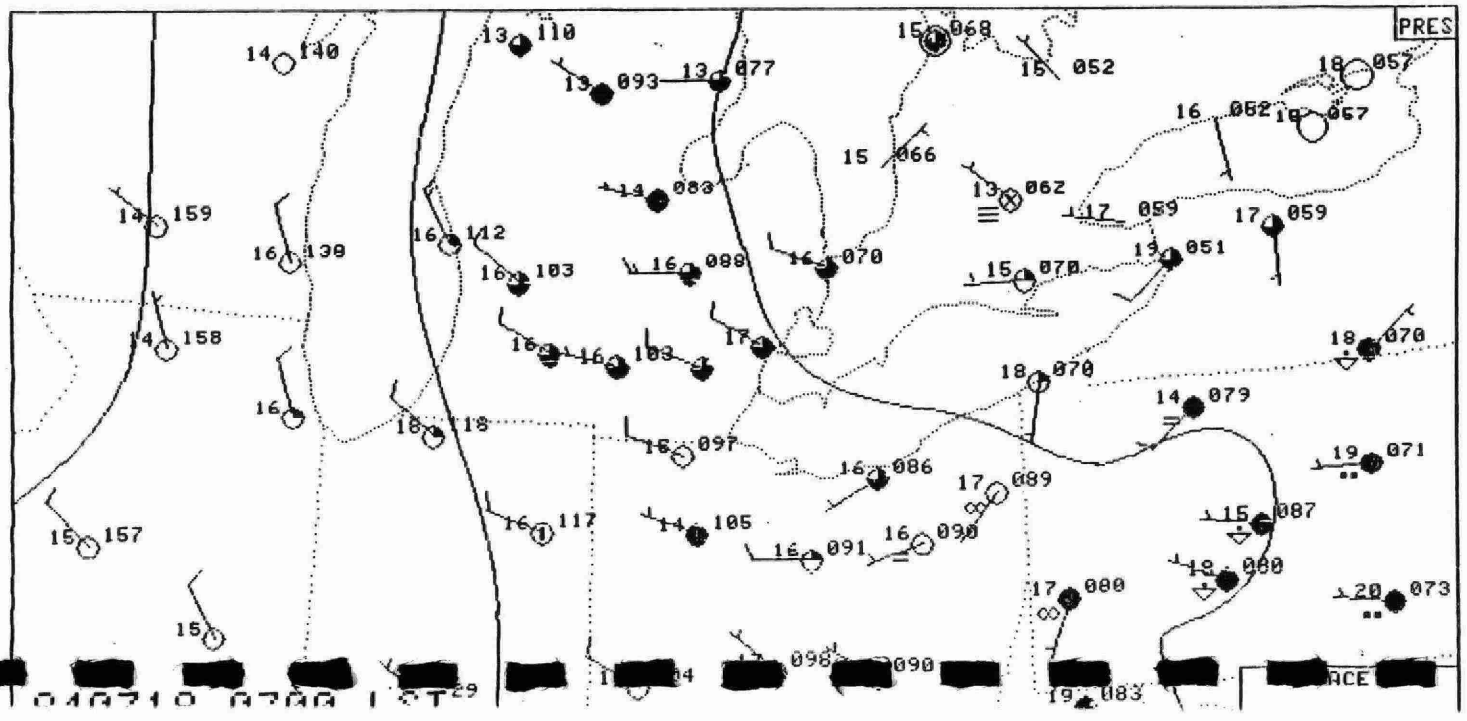

PRES
840713 0700 LST
SURFACE MAP
84/07/13 1200Z


PRES


PRES
840715 0700 LST
SURFACE MAP
84/07/15 1200Z

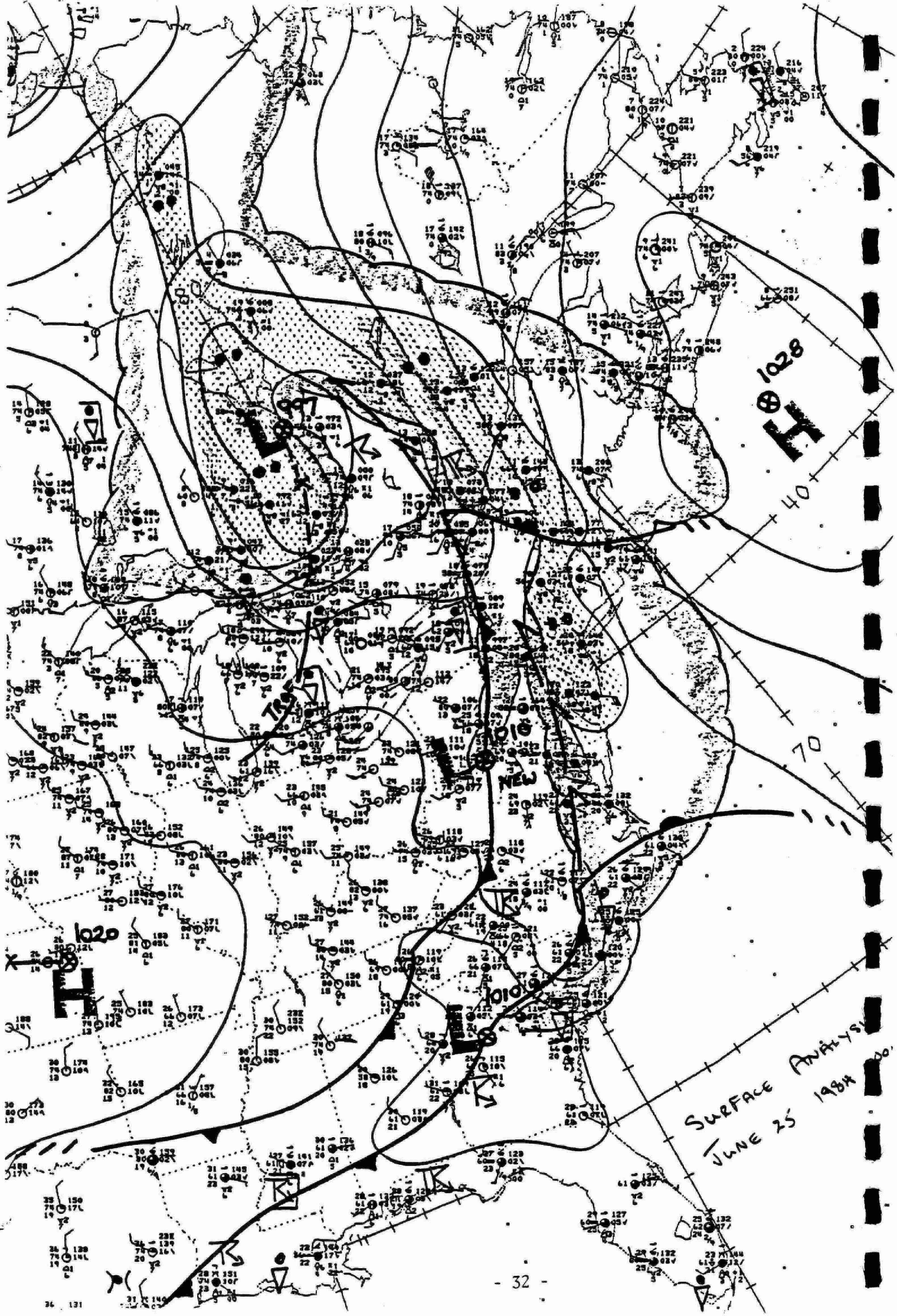

PRES
SURFACE MAP

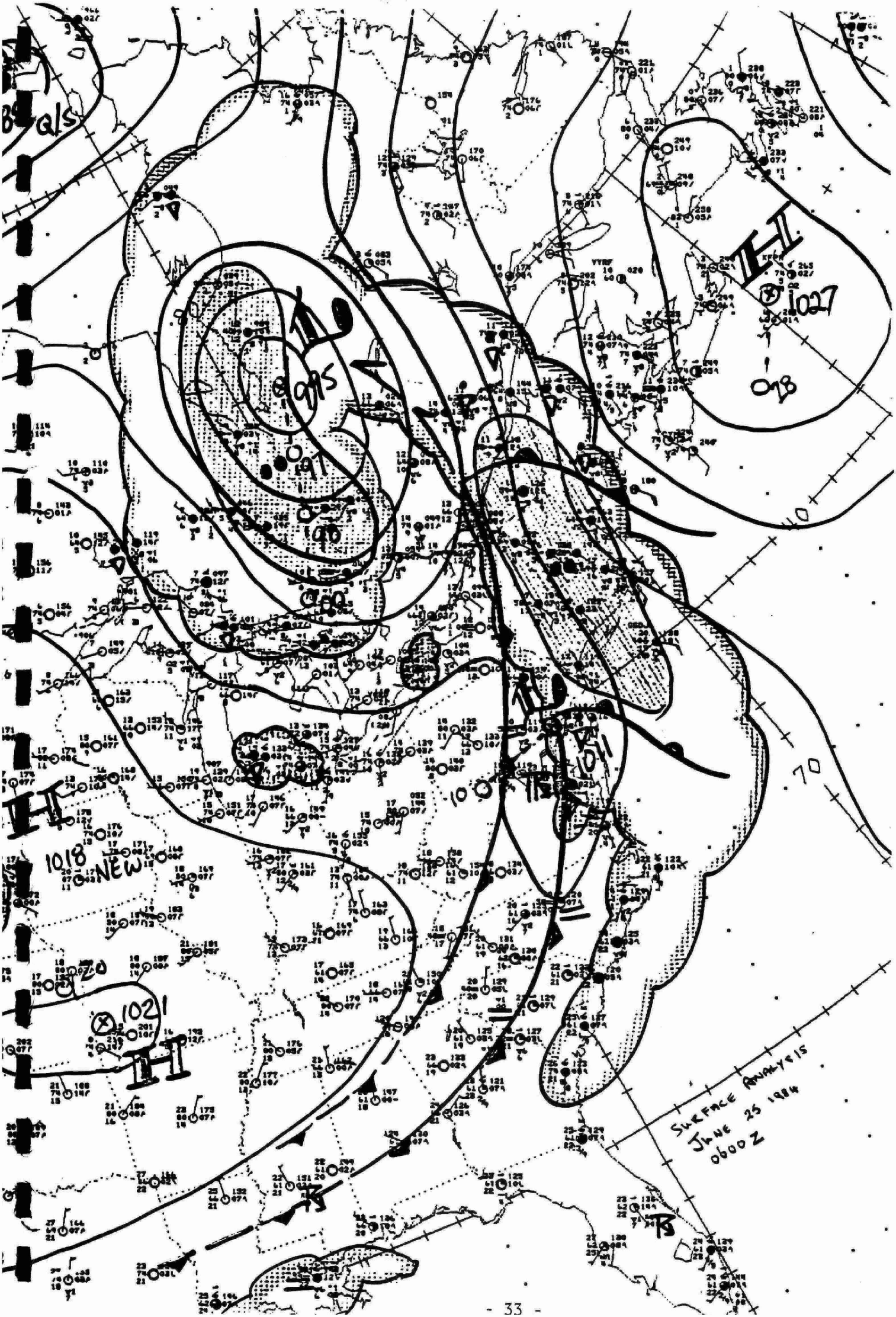

PRES
840717 0700 LST
SURFACE MAP
84/07/17 1200Z

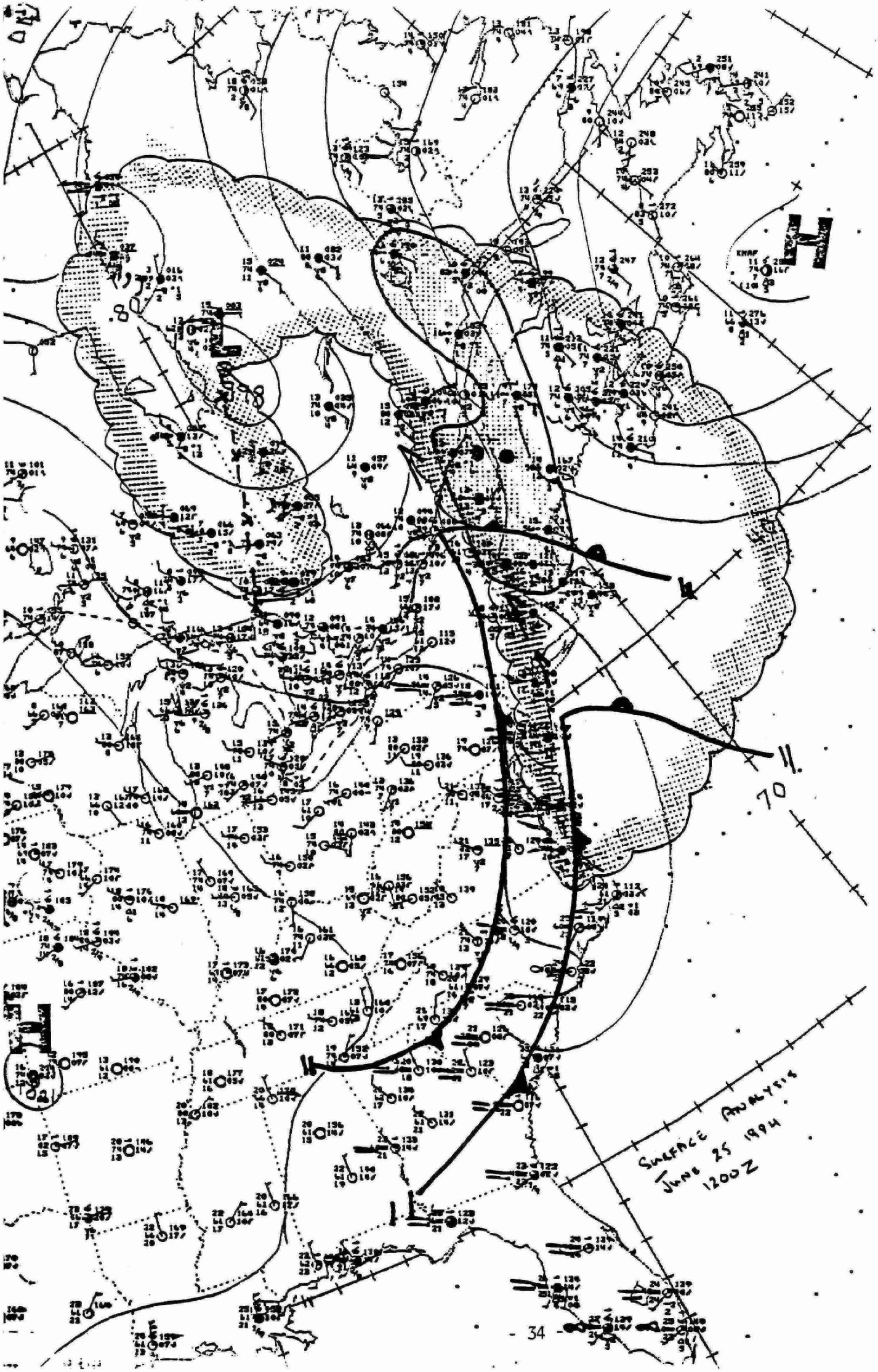

PRES

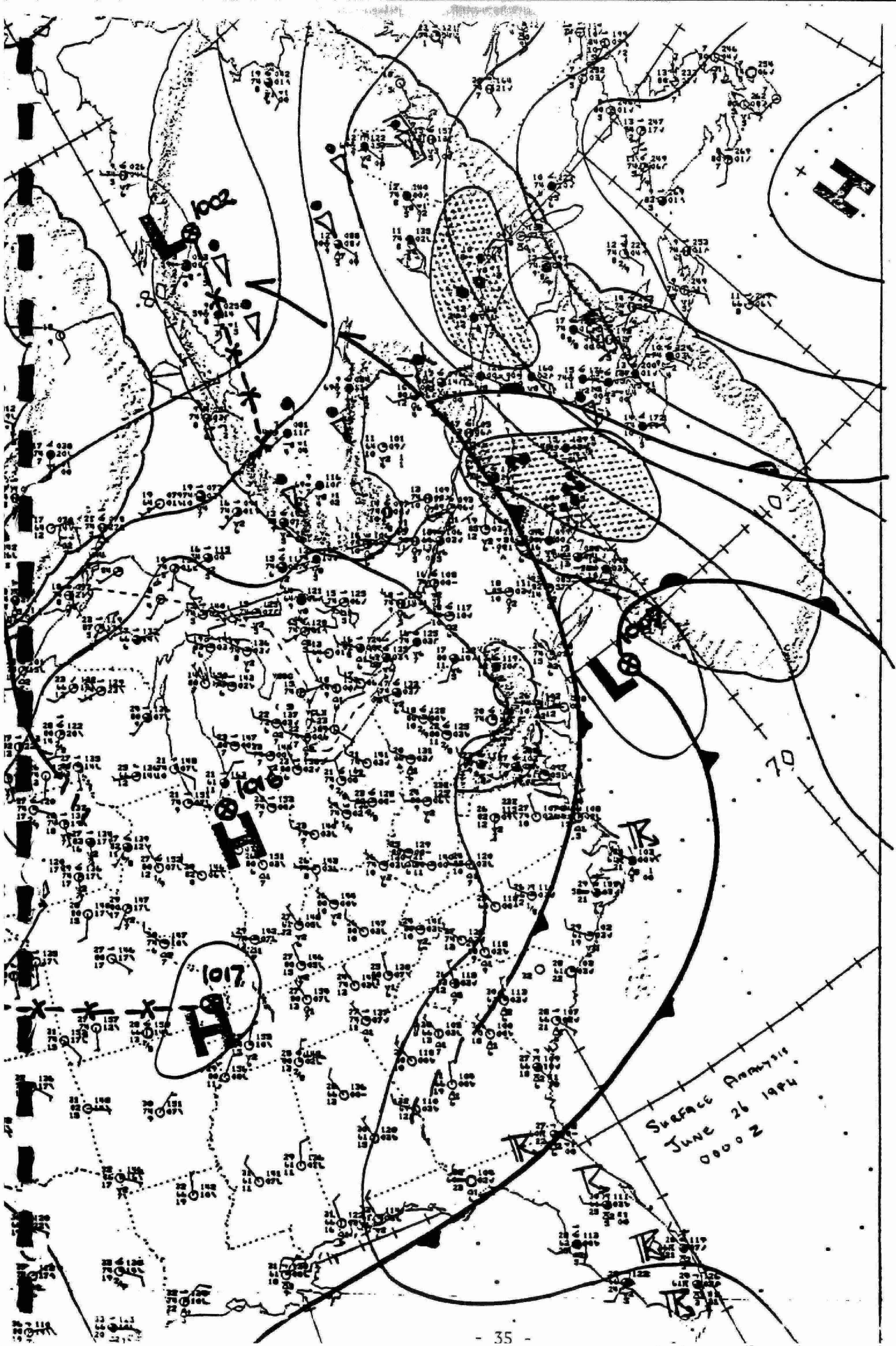
3.D DAILY SYNOPTIC WEATHER MAPS FOR EASTERN NORTH AMERICA JUNE 25 - JULY 18, 1984

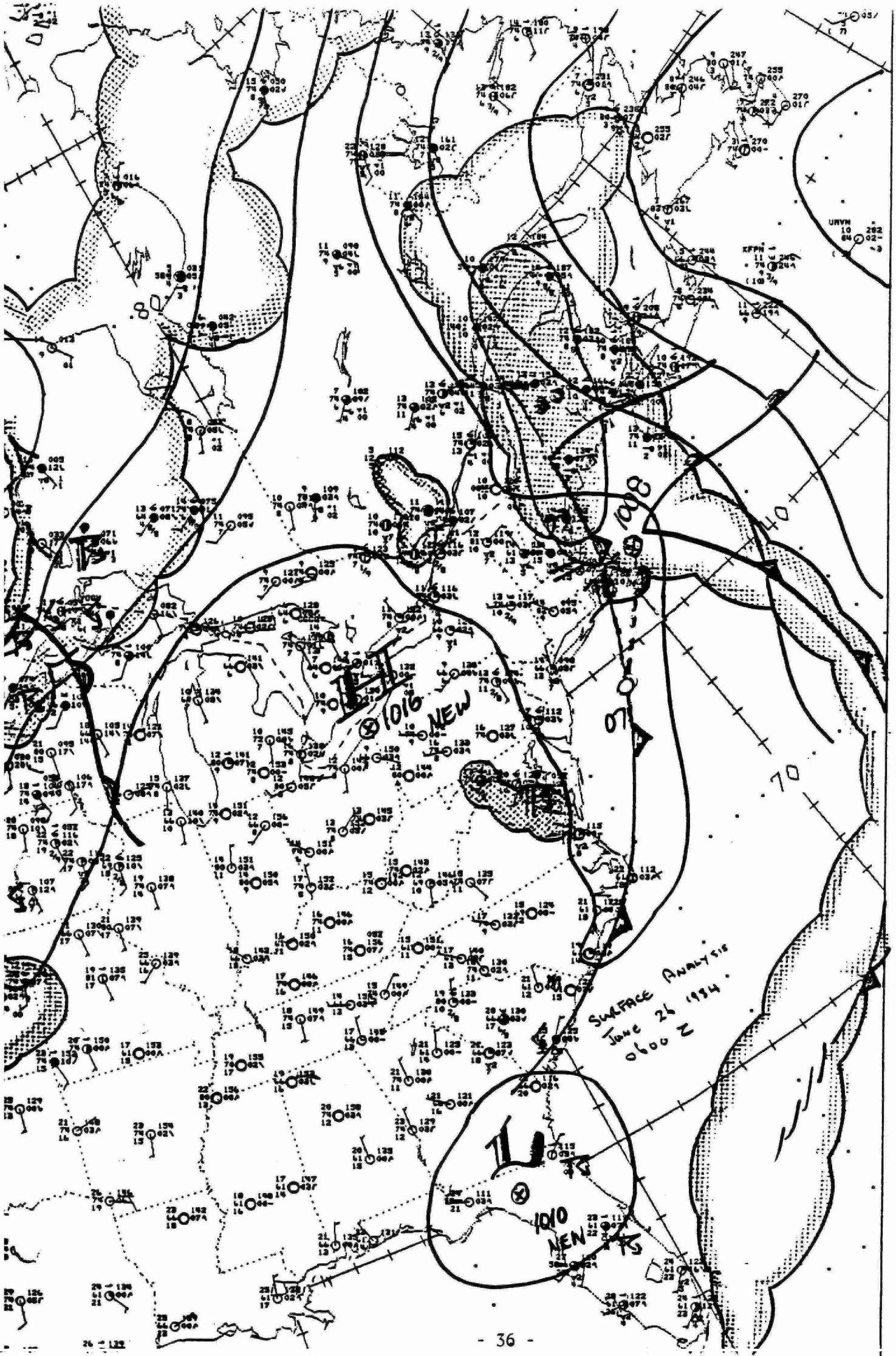
(ALL TIMES ARE EXPRESSED IN GREENWICH MEAN TIME (G.M.T.))

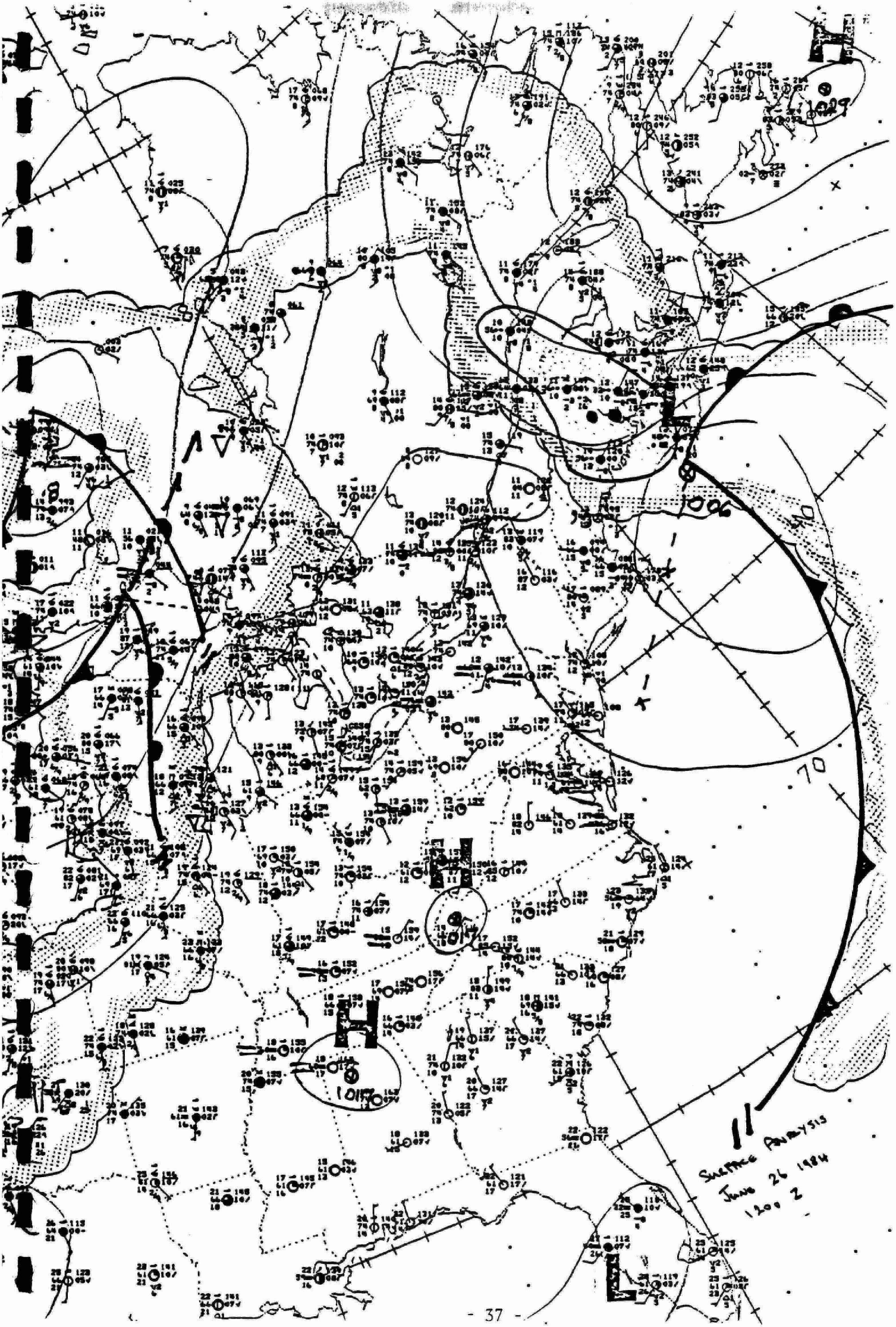

1028
H
997
L
1020
H
1016
NEW
1010
L
40
70
SURFACE ANALYSIS
JUNE 25 1984

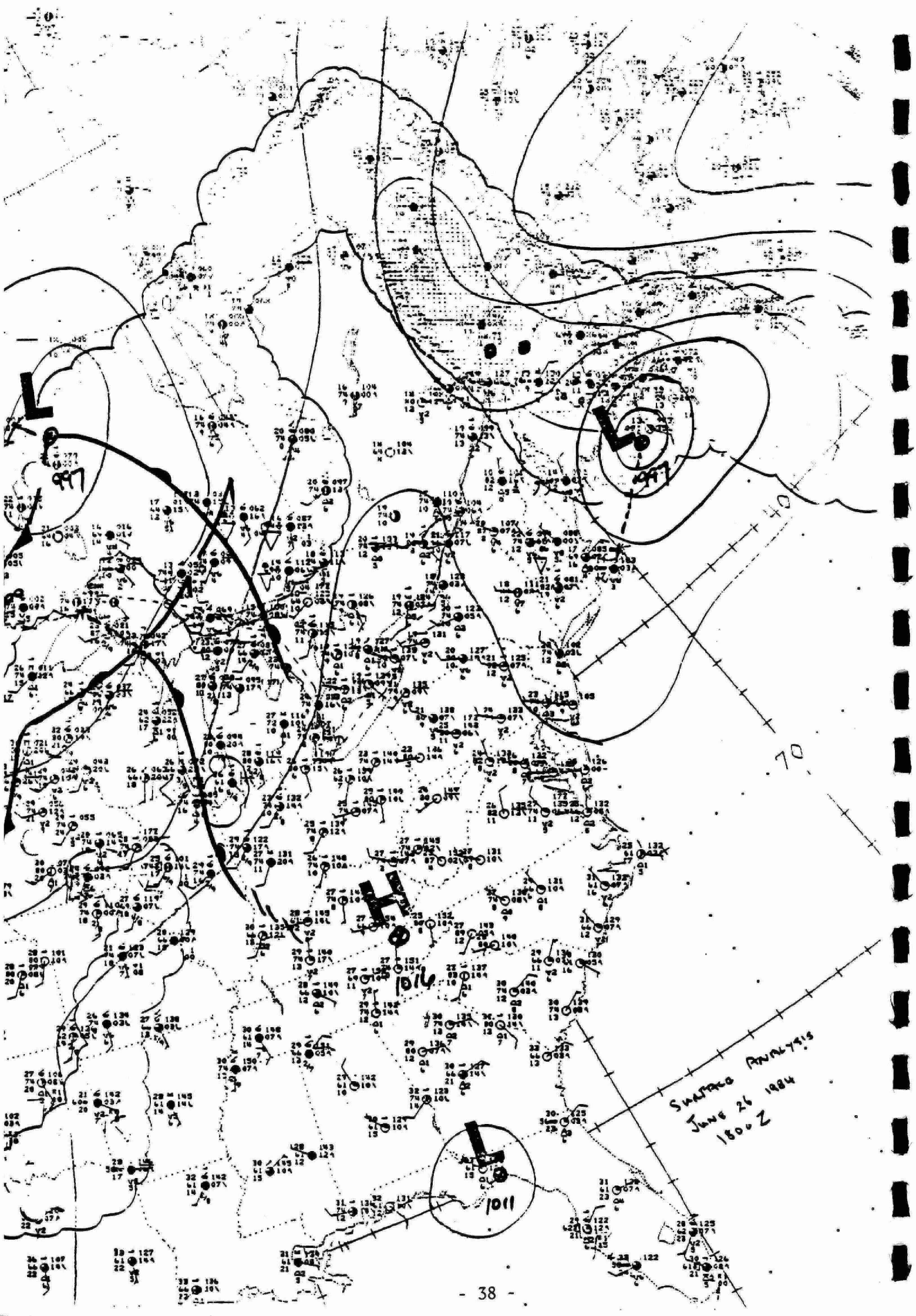

1027
1018
NEW
1021
SURFACE ANALYSIS
JUNE 25 1984
0600Z

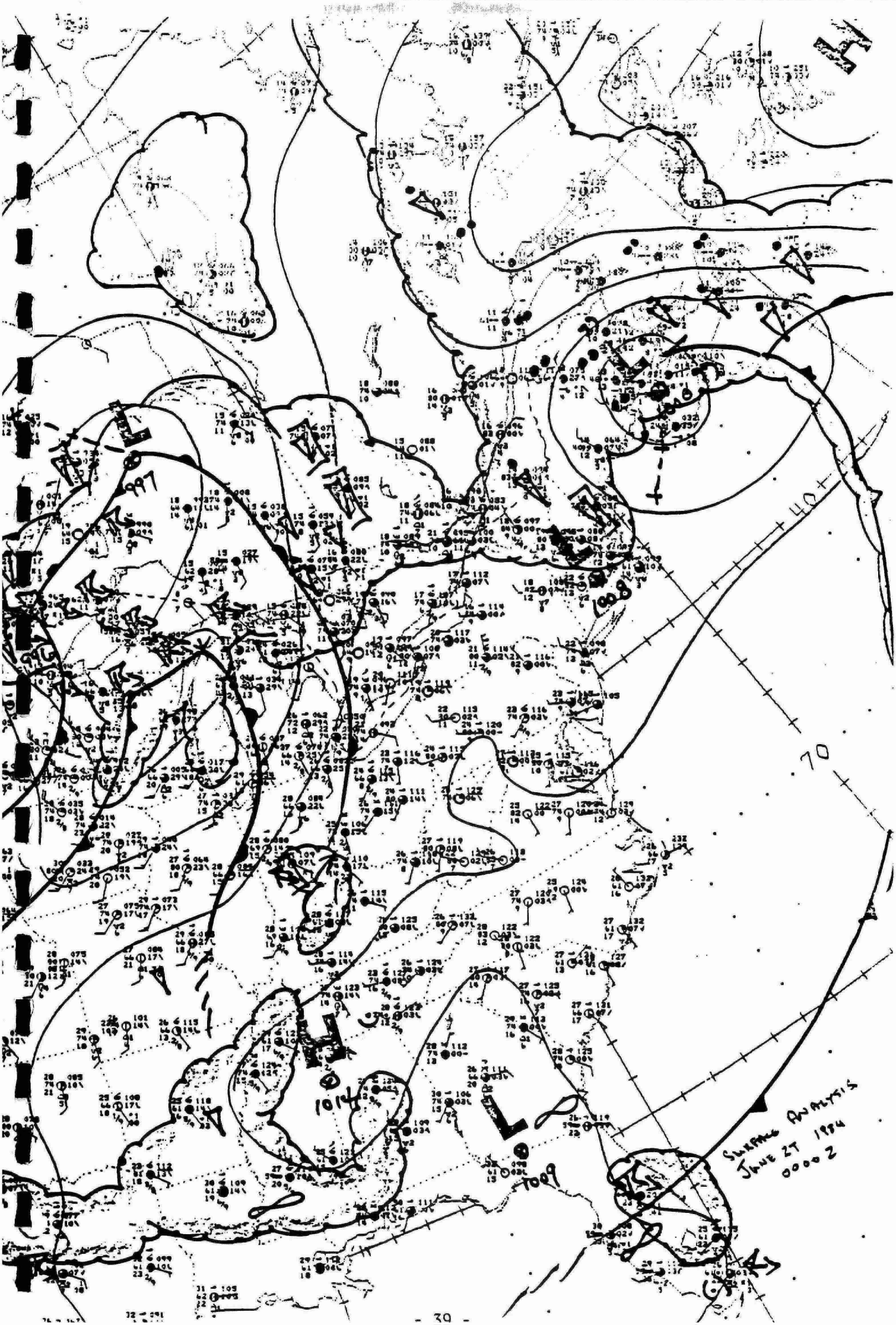

SURFACE ANALYSIS
JUNE 25 1994
1200Z

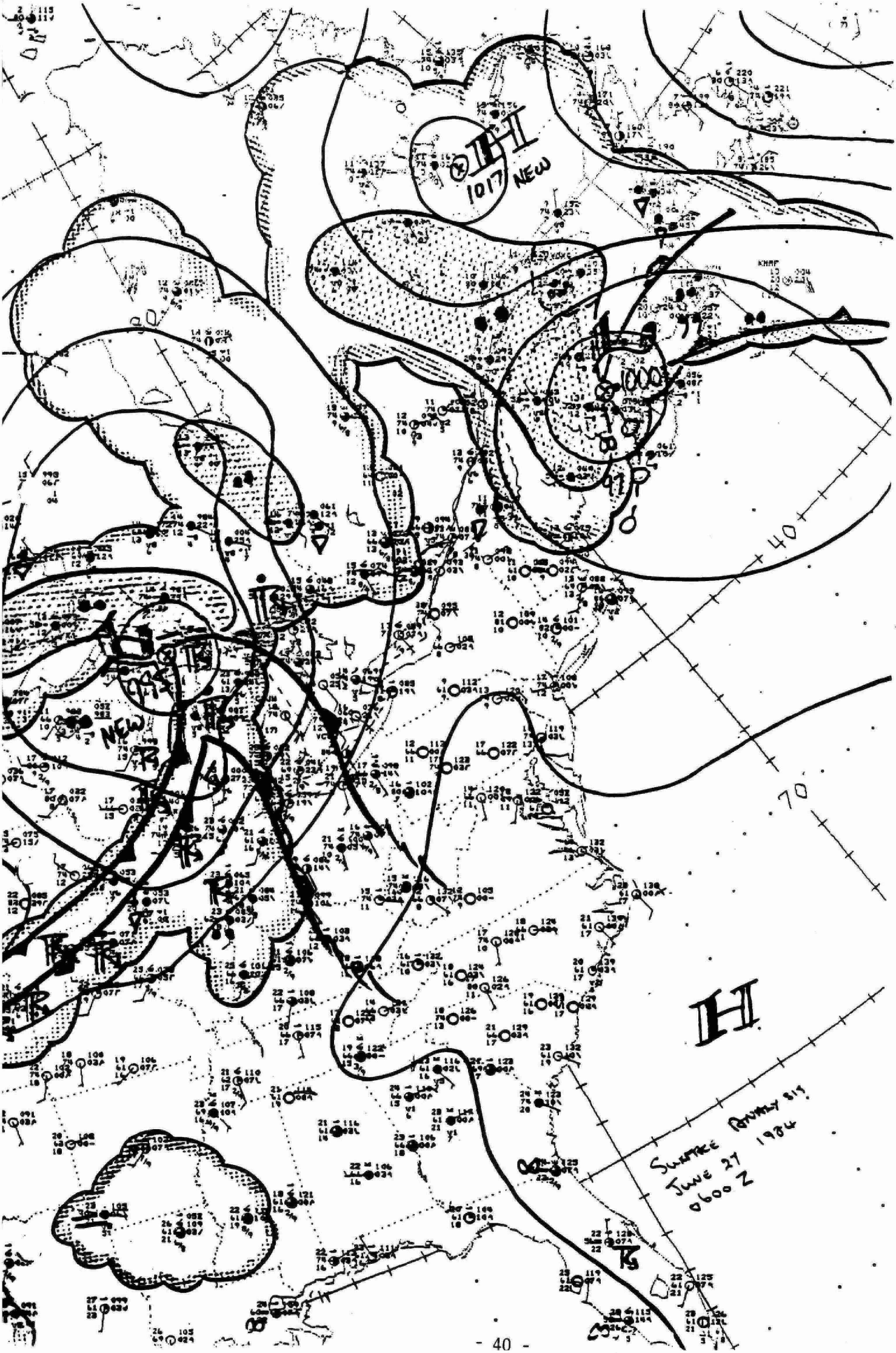

L
1002
H
1016
H
1017
H
40
70
Surface Analysis
June 26 1984
0000 Z

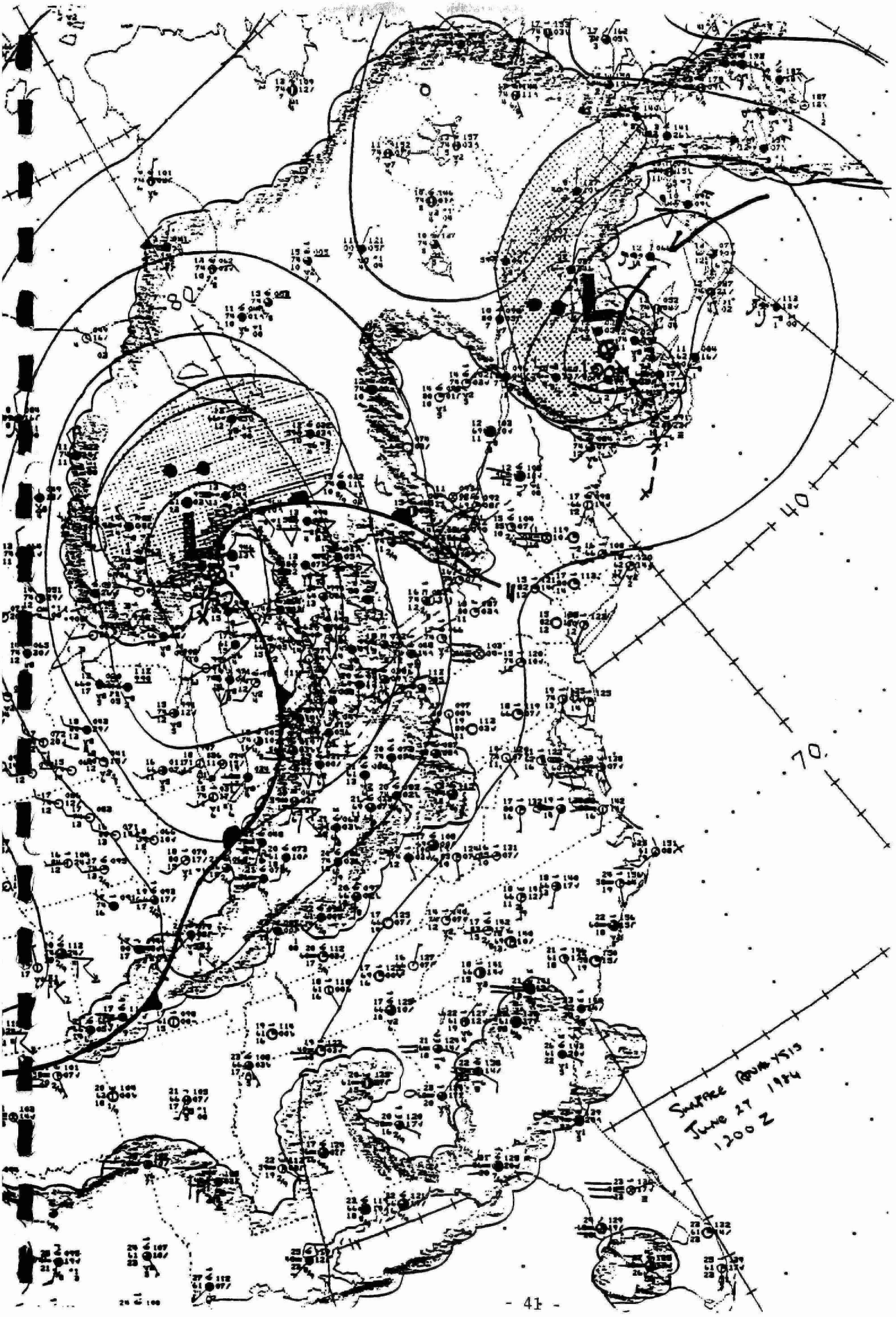

1016
NEW
1008
1010
NEW
SURFACE ANALYSIS
JUNE 26 1954
0600 Z

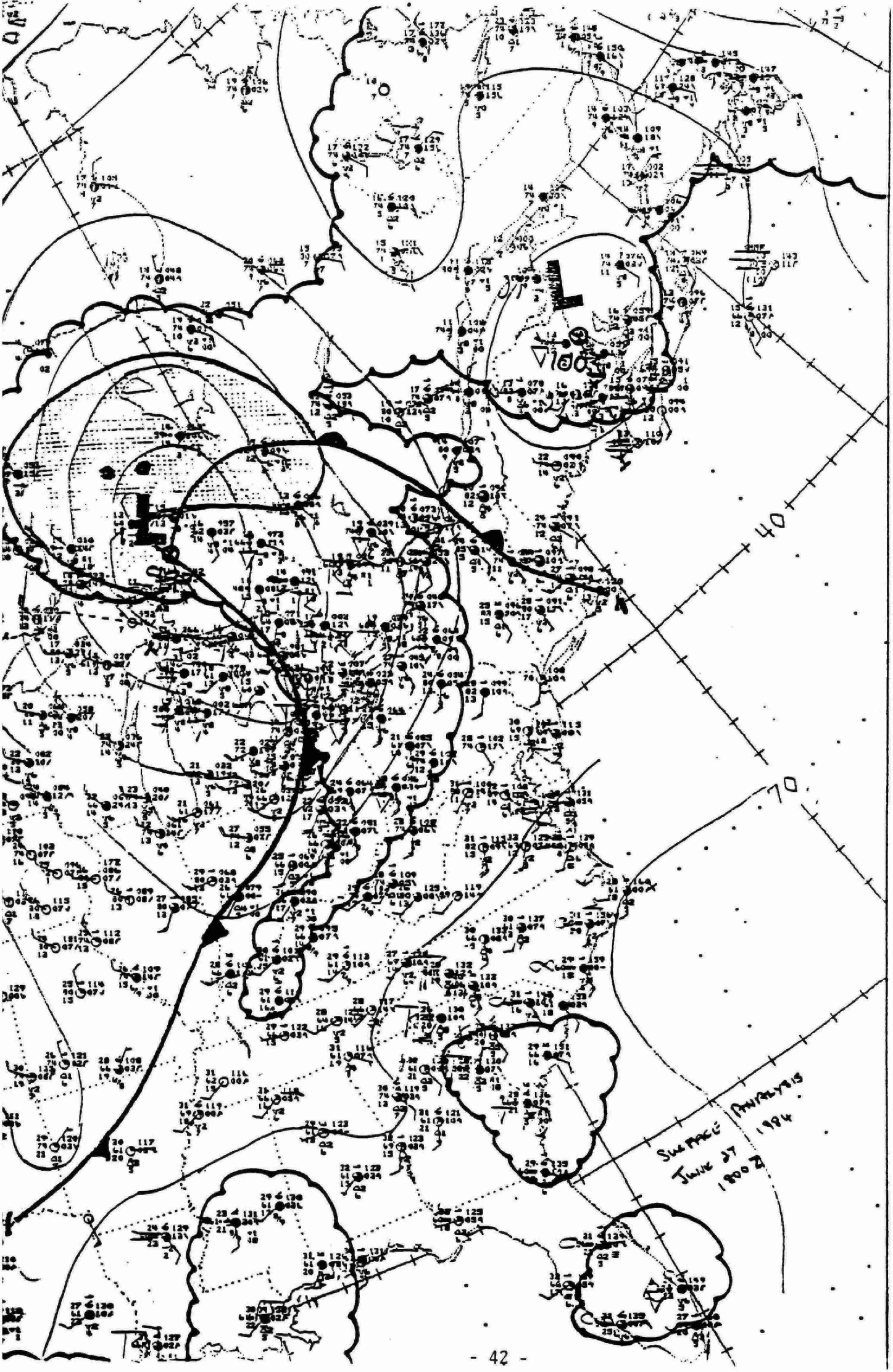

1009
1006
1011
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SURFACE ANALYSIS
JUNE 26 1984
1200 Z

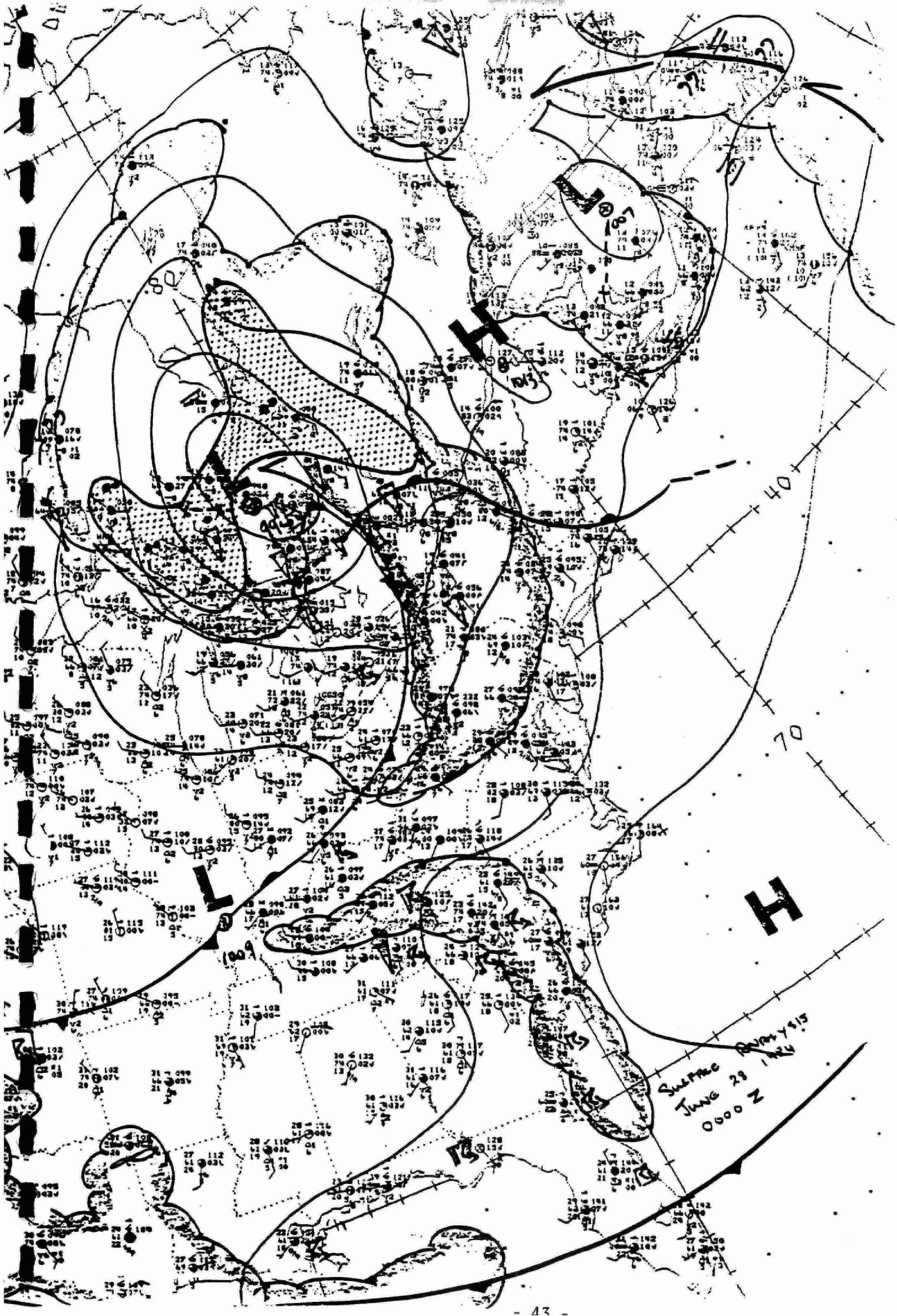

L
997
L
997
H
1016
1011
40
70
SURFACE ANALYSIS
JUNE 26 1984
1800Z

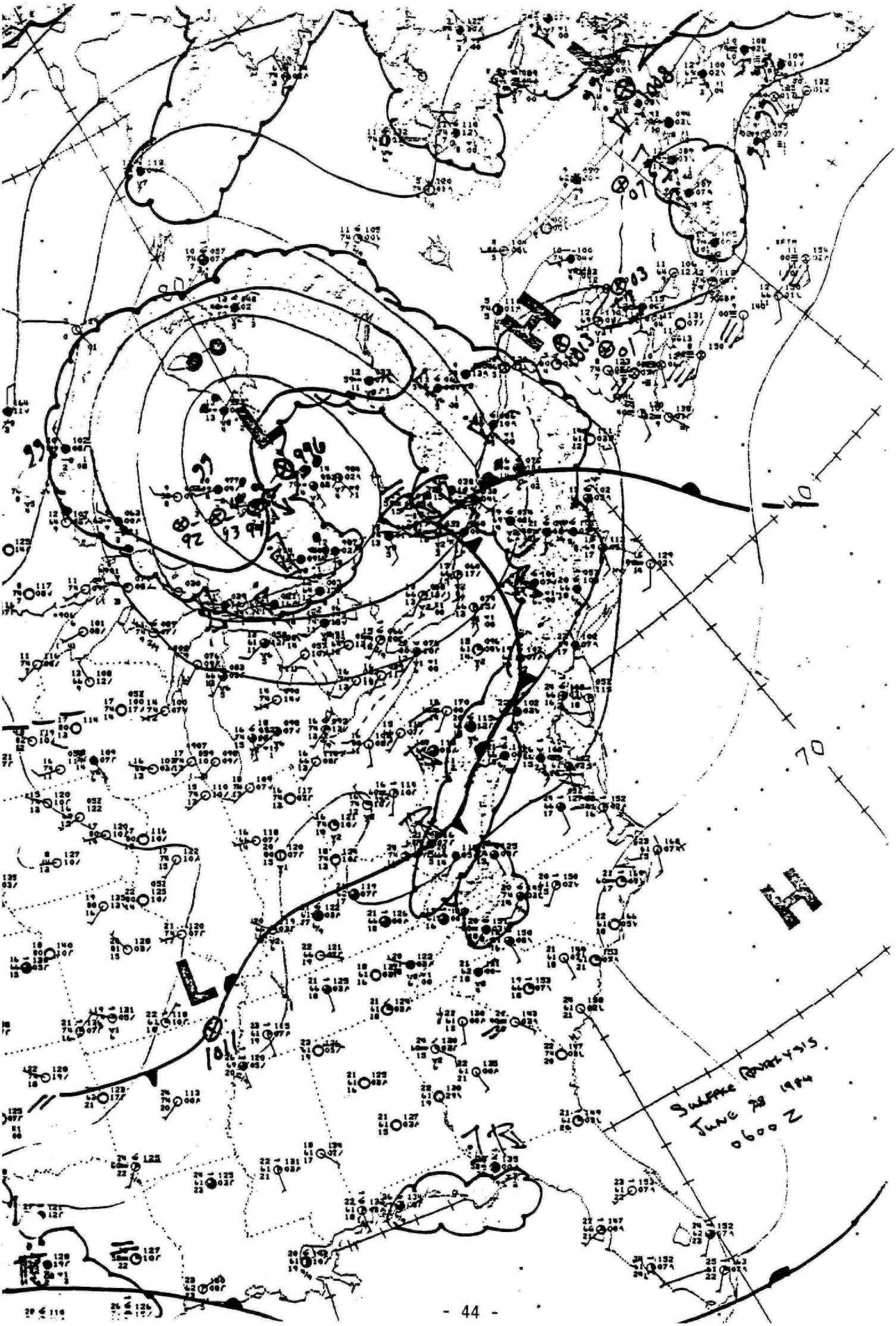

SURFACE ANALYSIS
JUNE 27 1974
0000 Z

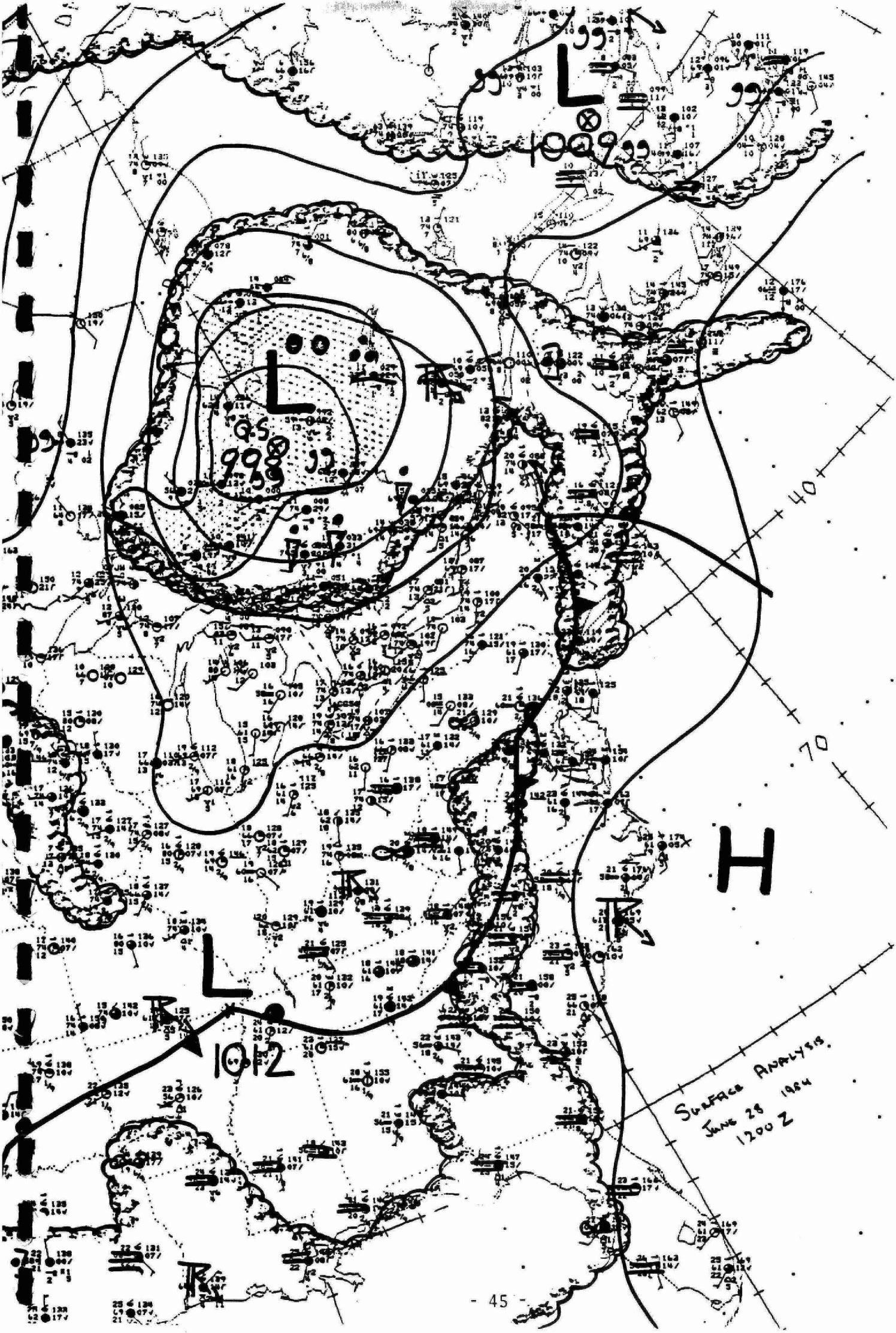

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NEW
1000
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70
H
SURFACE ANALYSIS
JUNE 27 1984
0600 Z

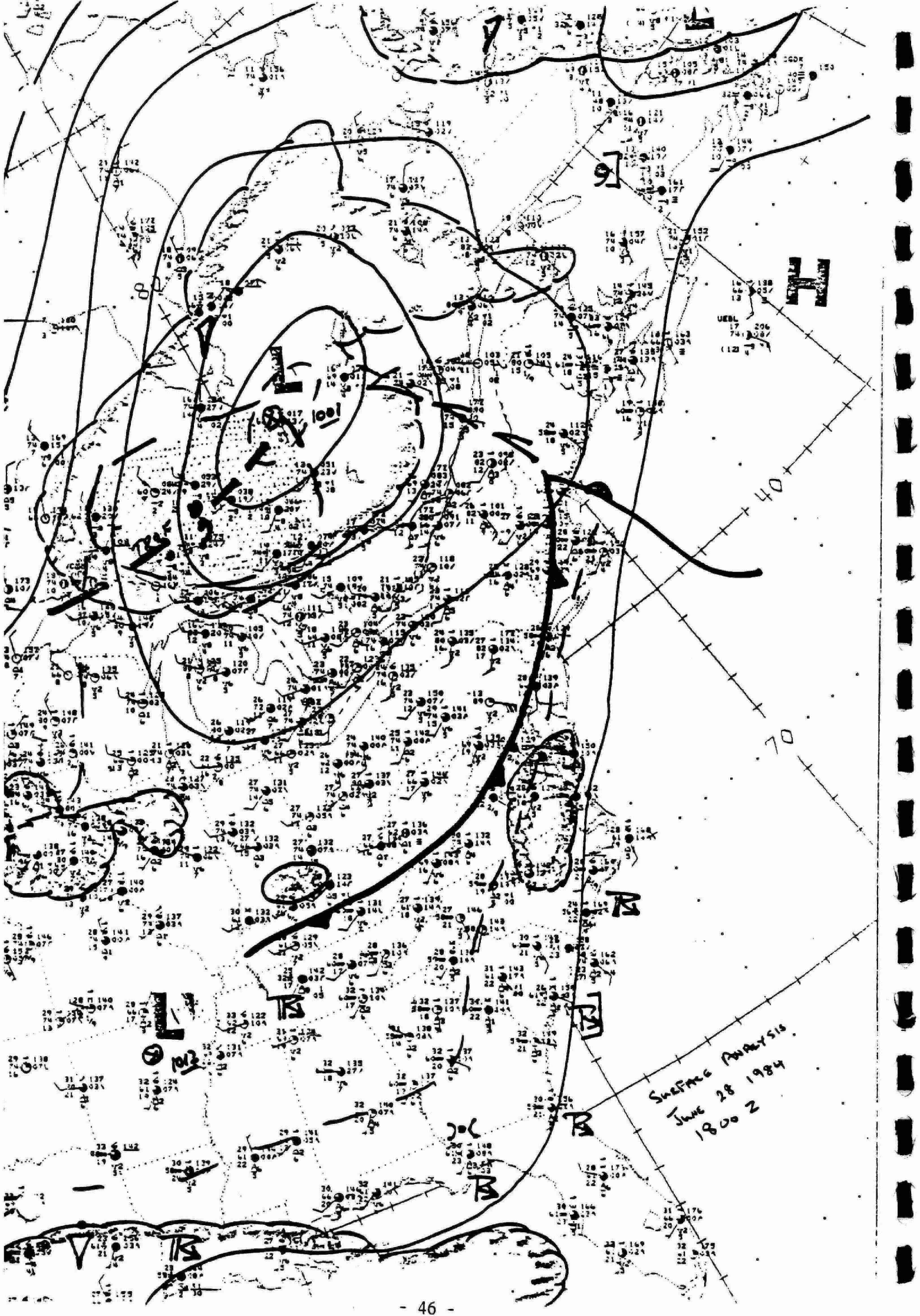

80
120
40
70
Surface Analysis
June 27 1984
1200 Z

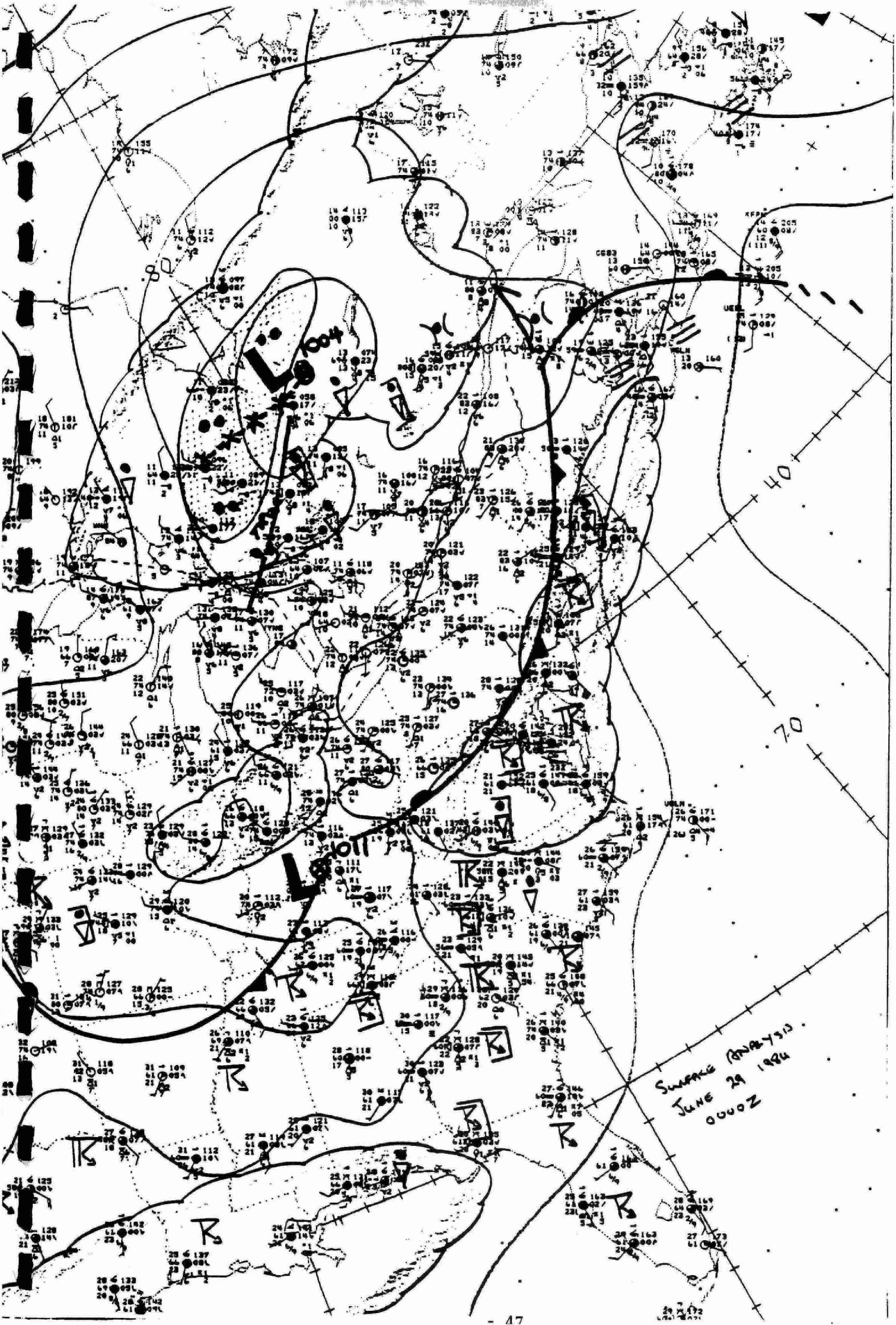

40
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SURFACE ANALYSIS
JUNE 27 1984
1800 Z

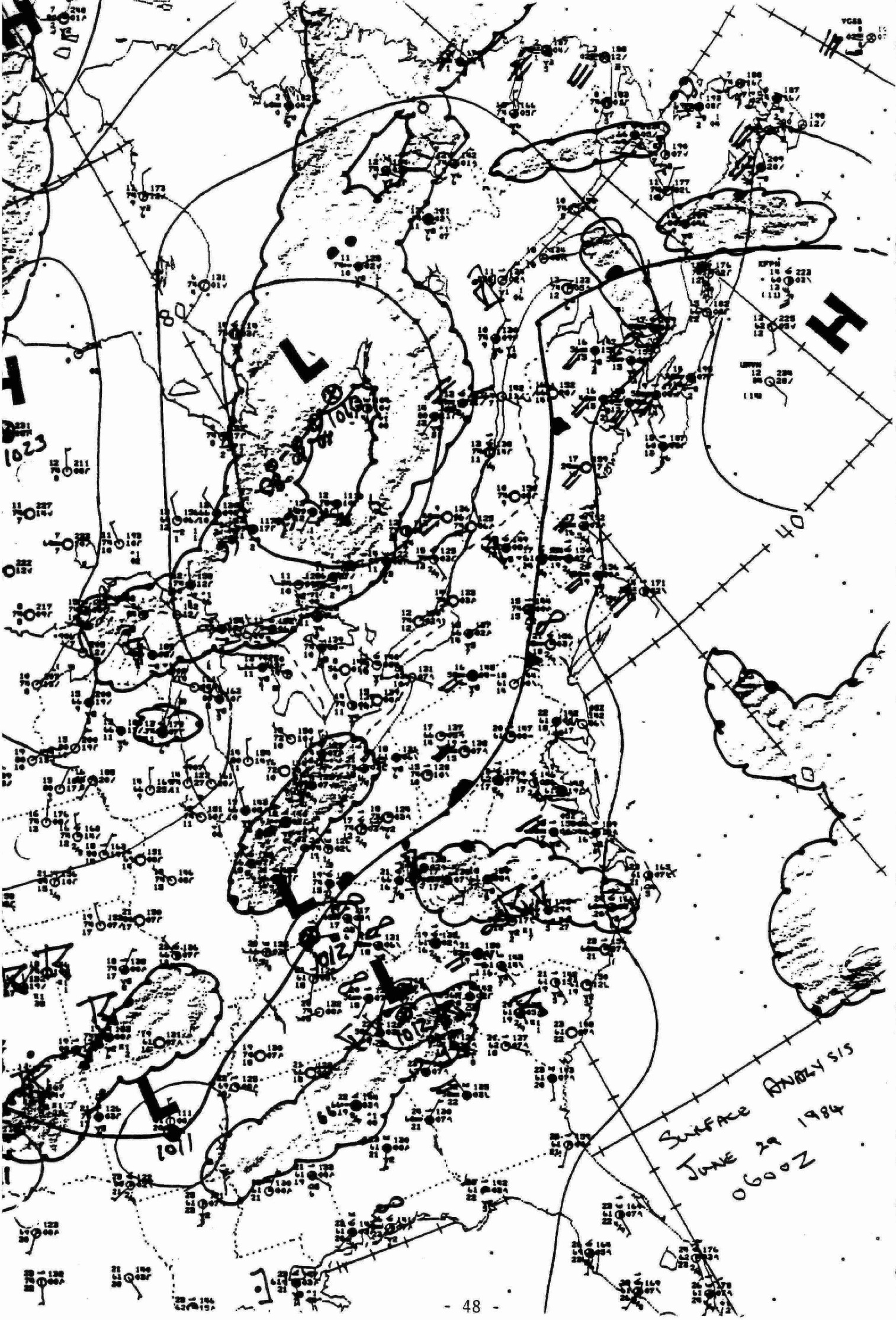

H
L
H
40
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SURFACE ANALYSIS
JUNE 29 1957
0600 Z

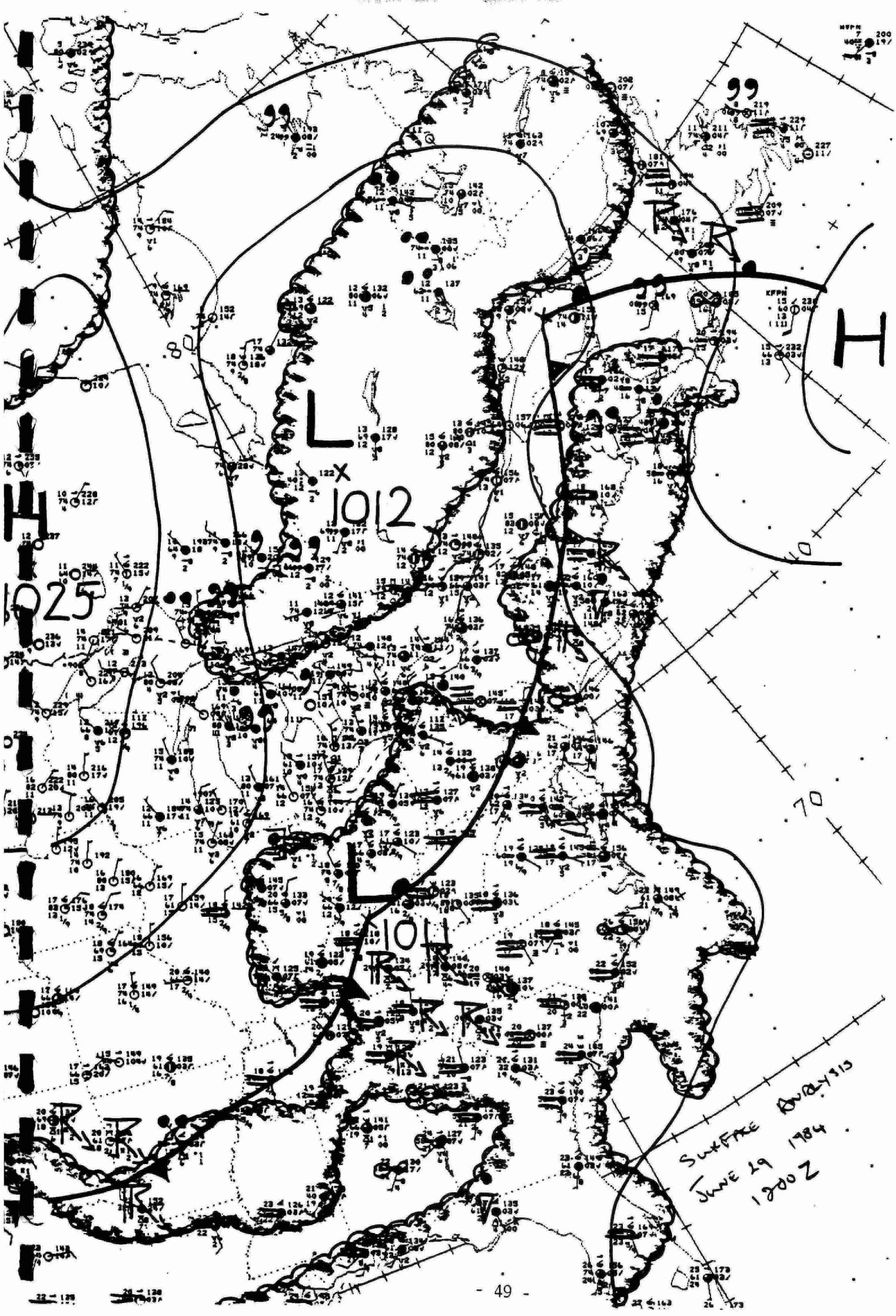

SURFACE ANALYSIS
JUNE 28 1984
0600 Z

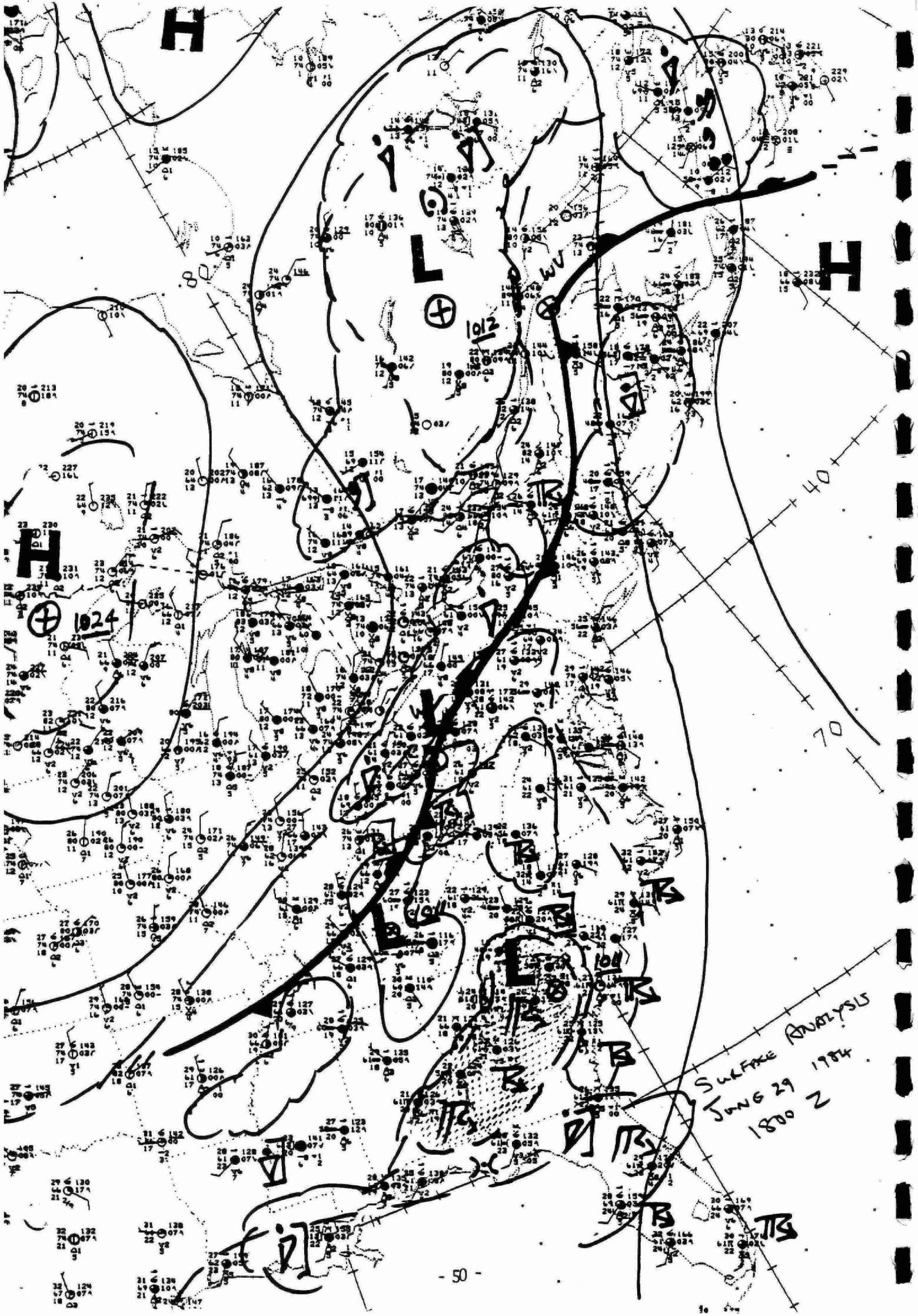

L
998
L
998
L
1012
H
40
70
Surface Analysis
June 28 1984
1200 Z

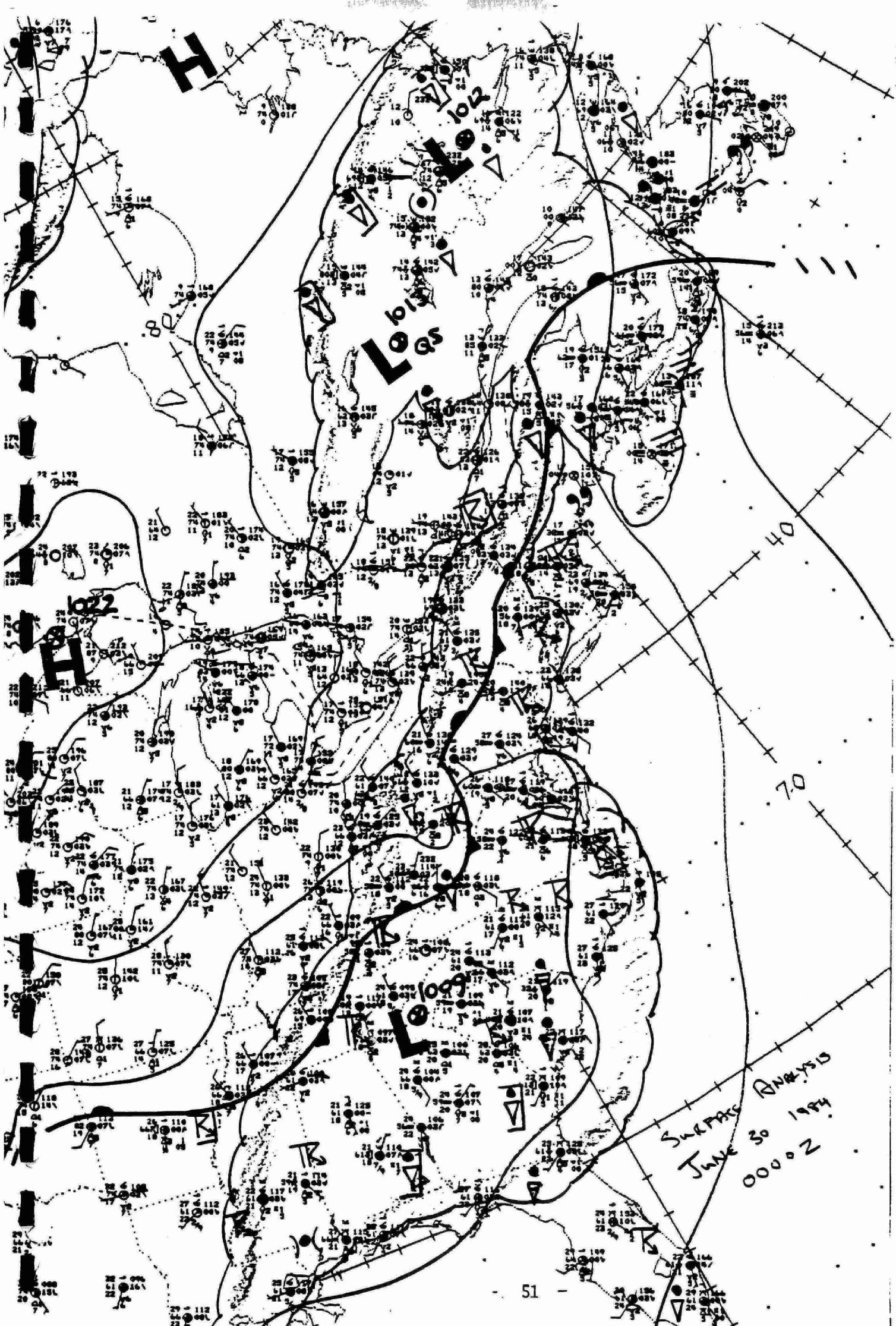

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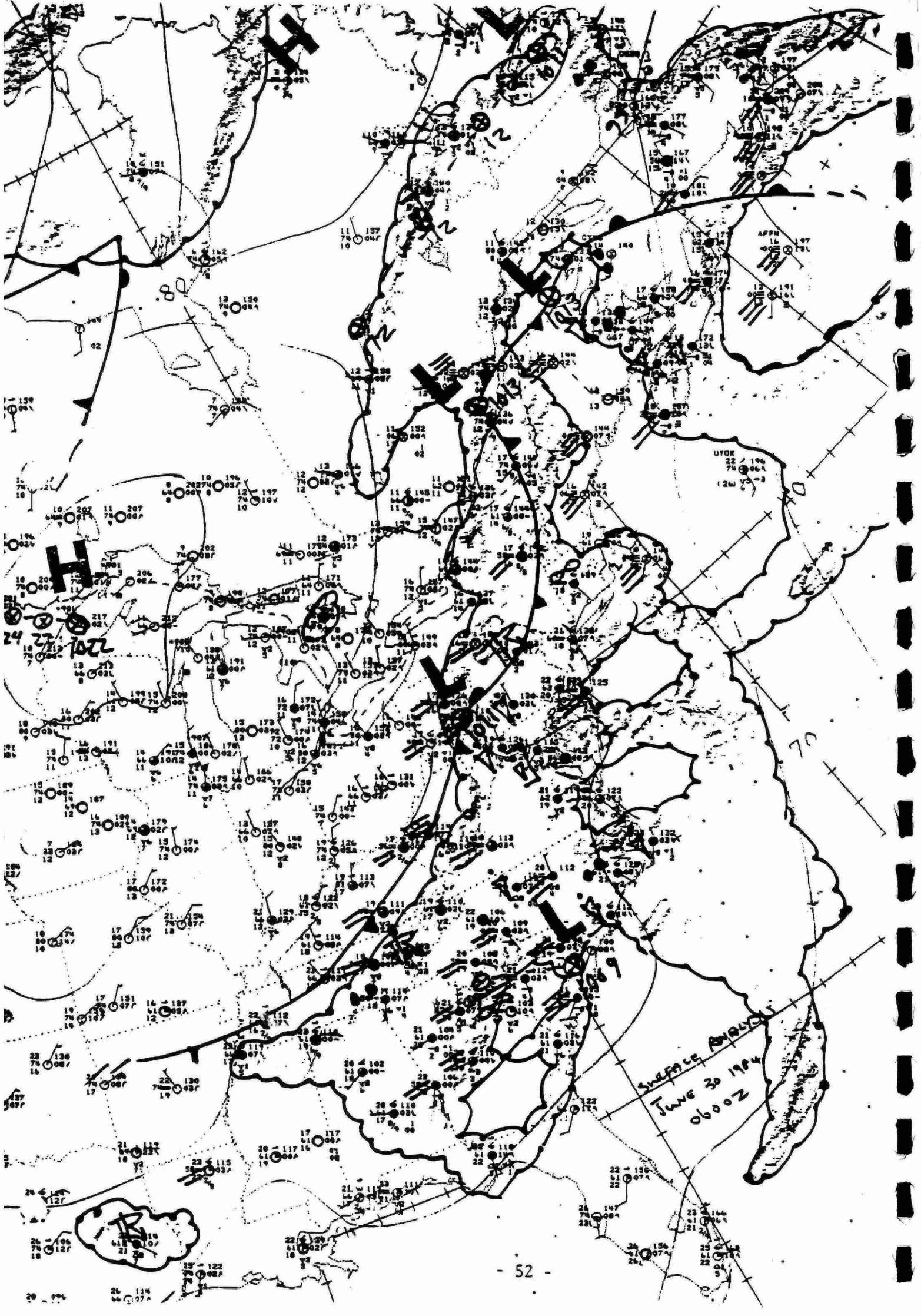

L 1004
L 1011
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JUNE 29 1994
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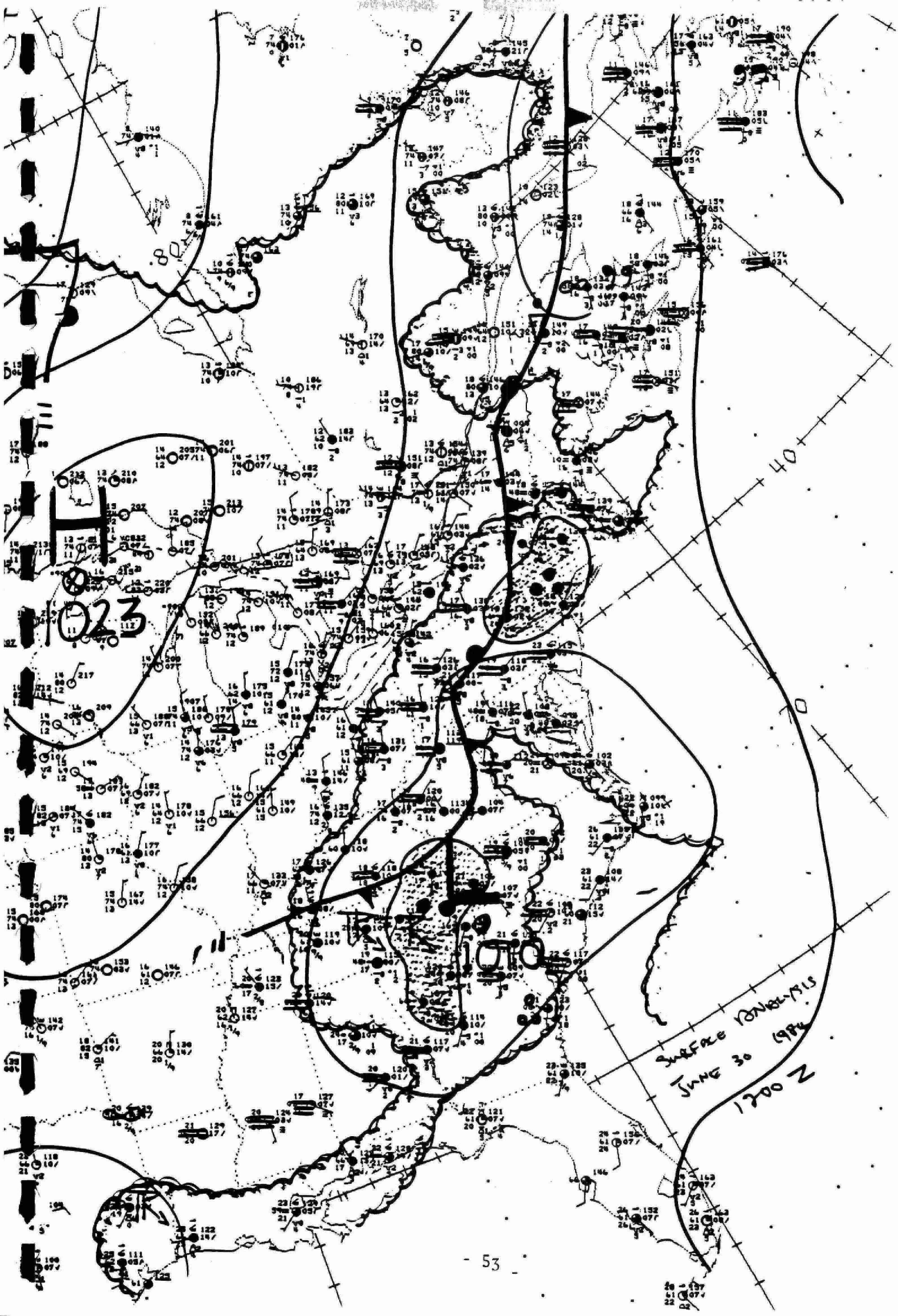

L
1012
L
1012
L
1011
H
1023
40
SURFACE ANALYSIS
JUNE 29 1984
0600Z

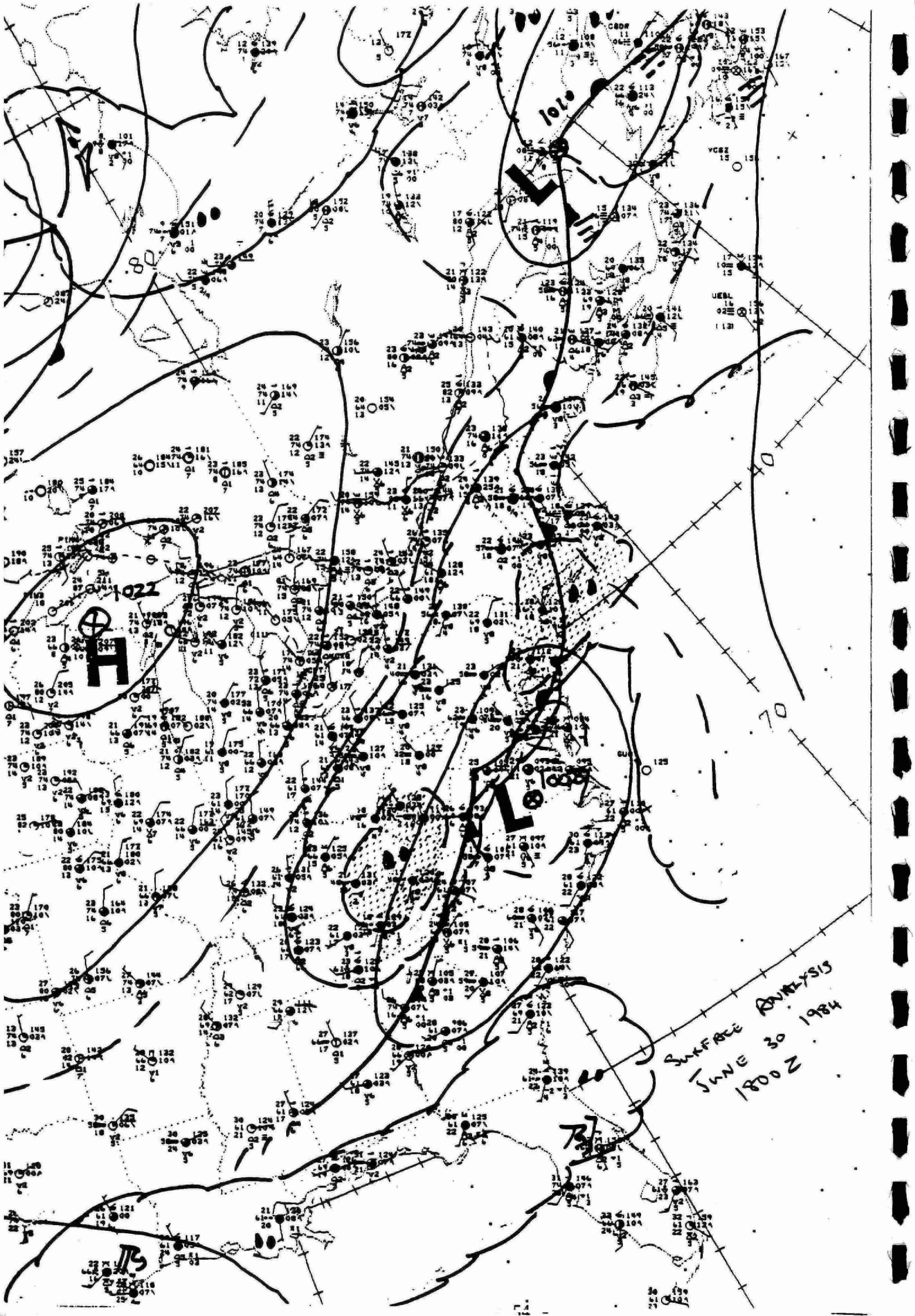

L
1012
H
1025
L
1014
H
80
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SURFACE ANALYSIS
JUNE 29 1984
1200 Z

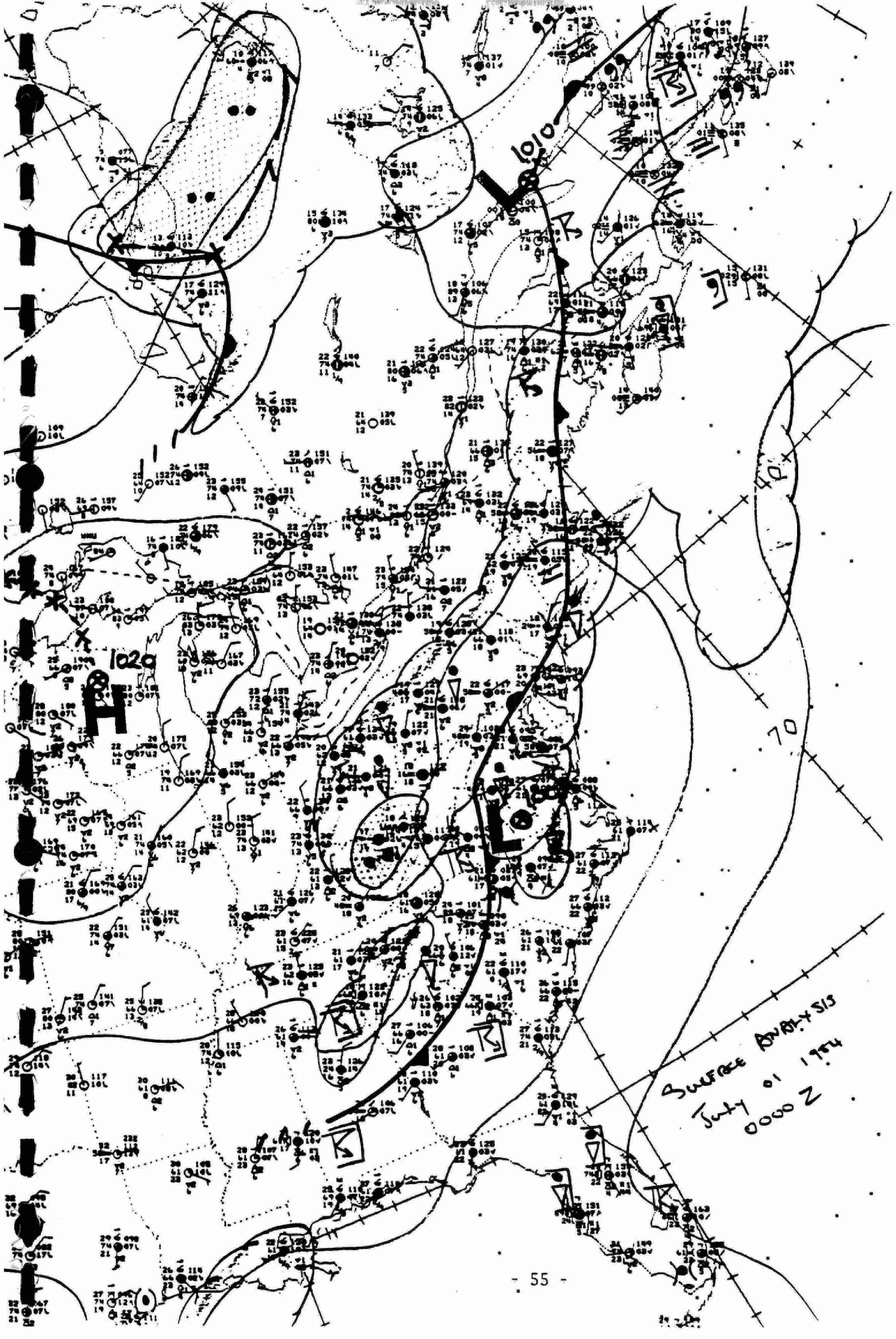

H
L
1012
H
H
1024
L
L
1011
80
40
70
SURFACE ANALYSIS
JUNE 29 1984
1800 Z

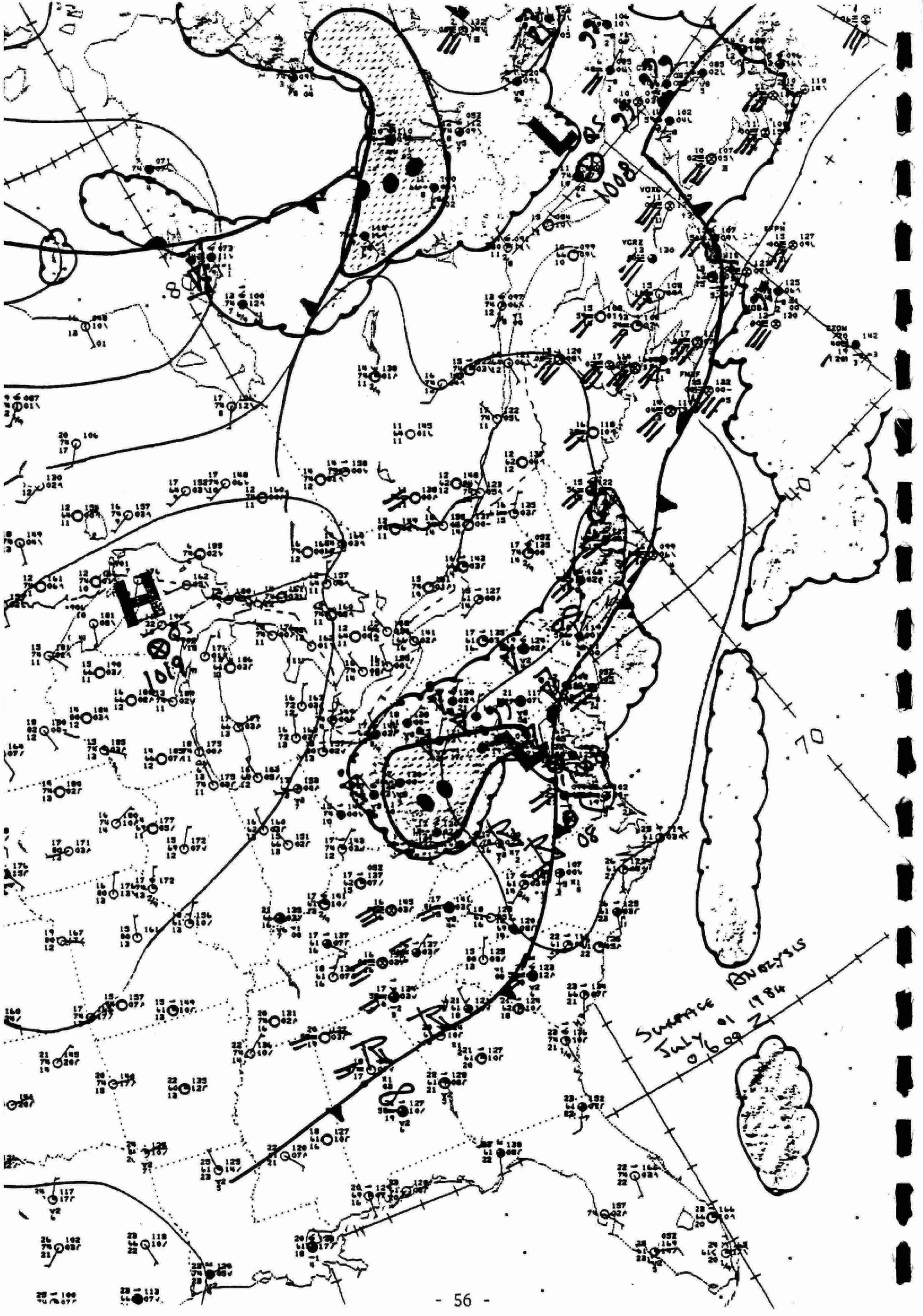

H
L
1012
L
1013
H
1022
L
1009
80
40
70
SURFACE ANALYSIS
JUNE 30 1984
0000Z

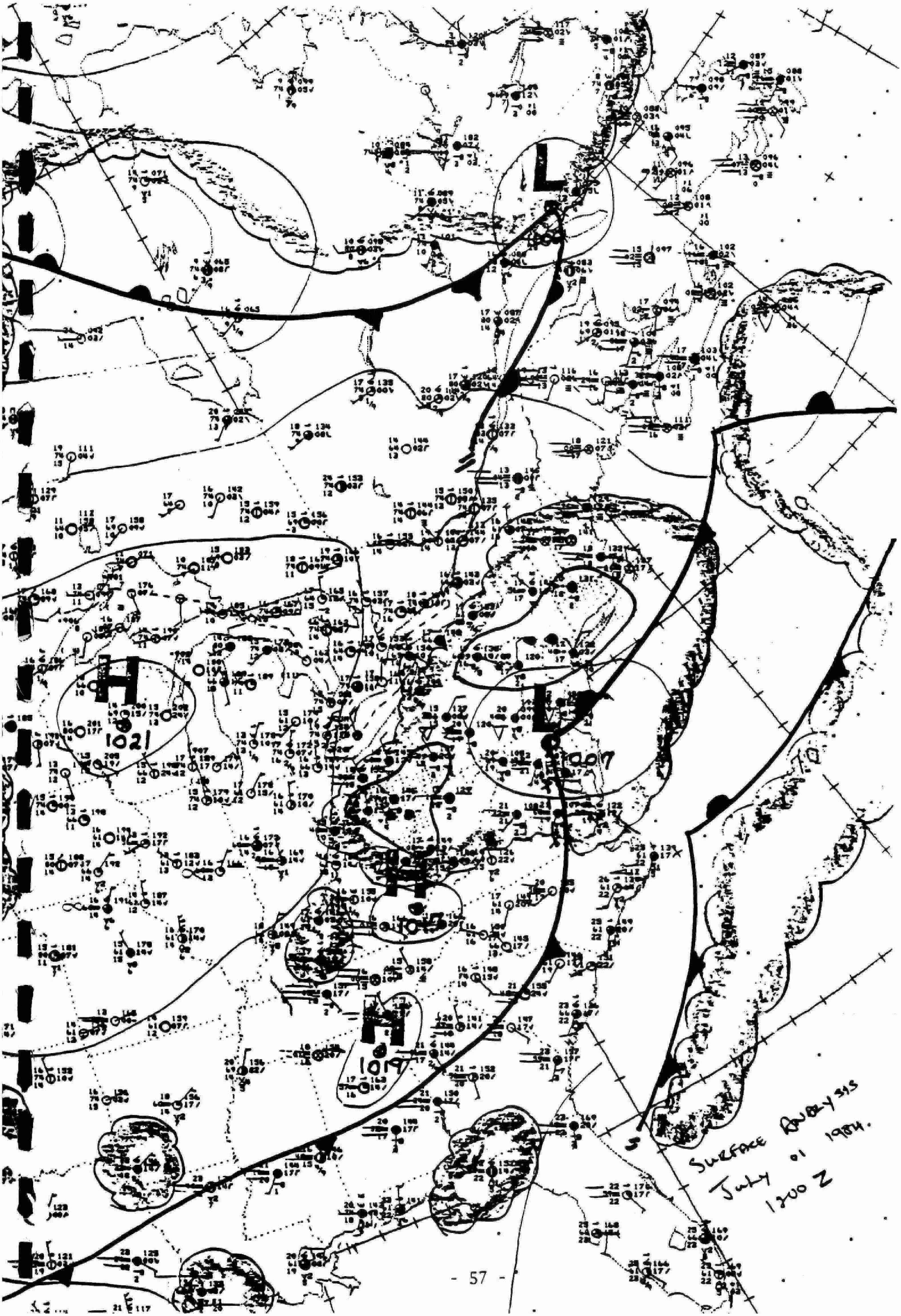

SURFACE ANALYSIS
JUNE 20 1984
0600Z

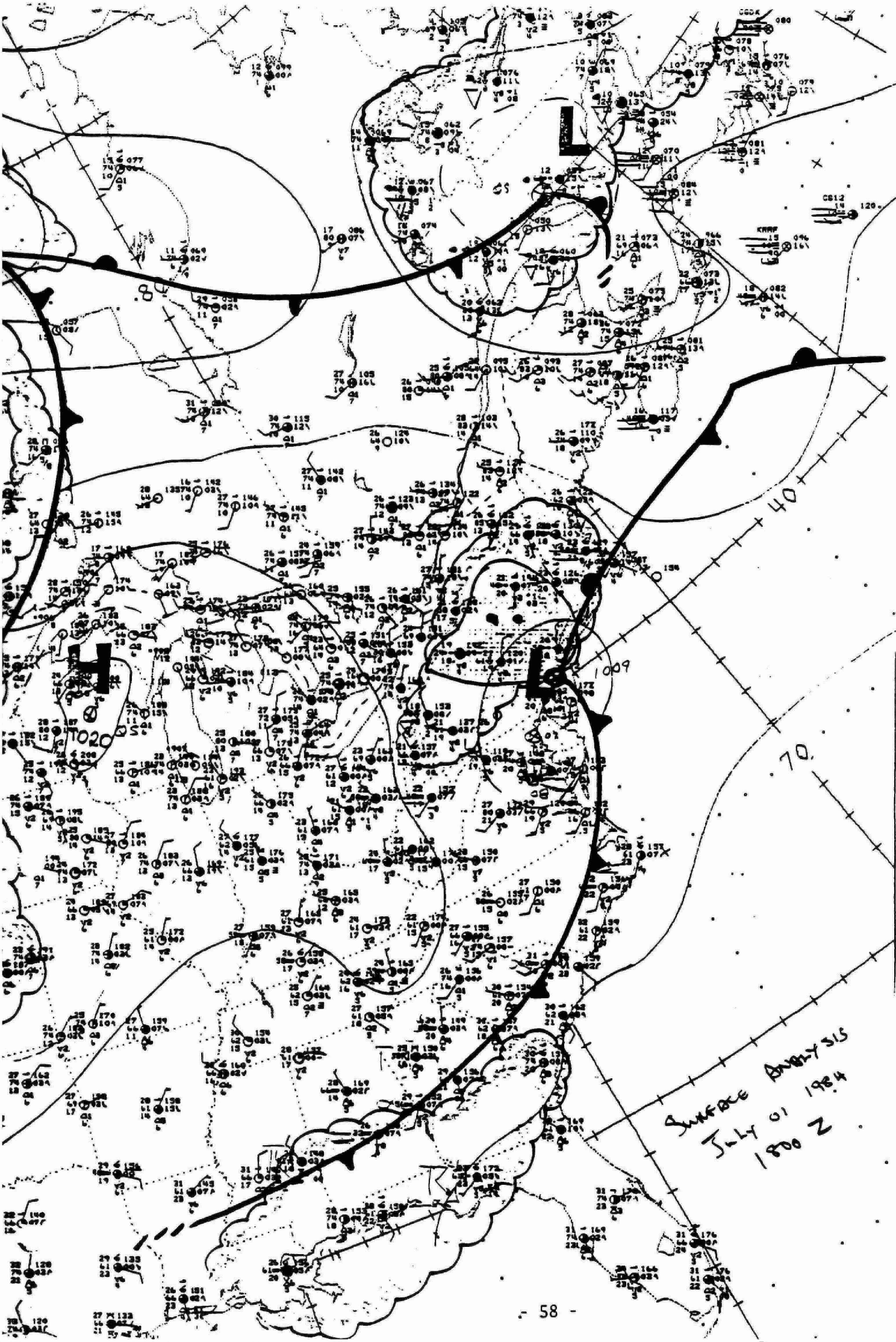

H
1023
1010
40
70
SURFACE PRESSURE PATTERN
JUNE 30 1978
1200 Z

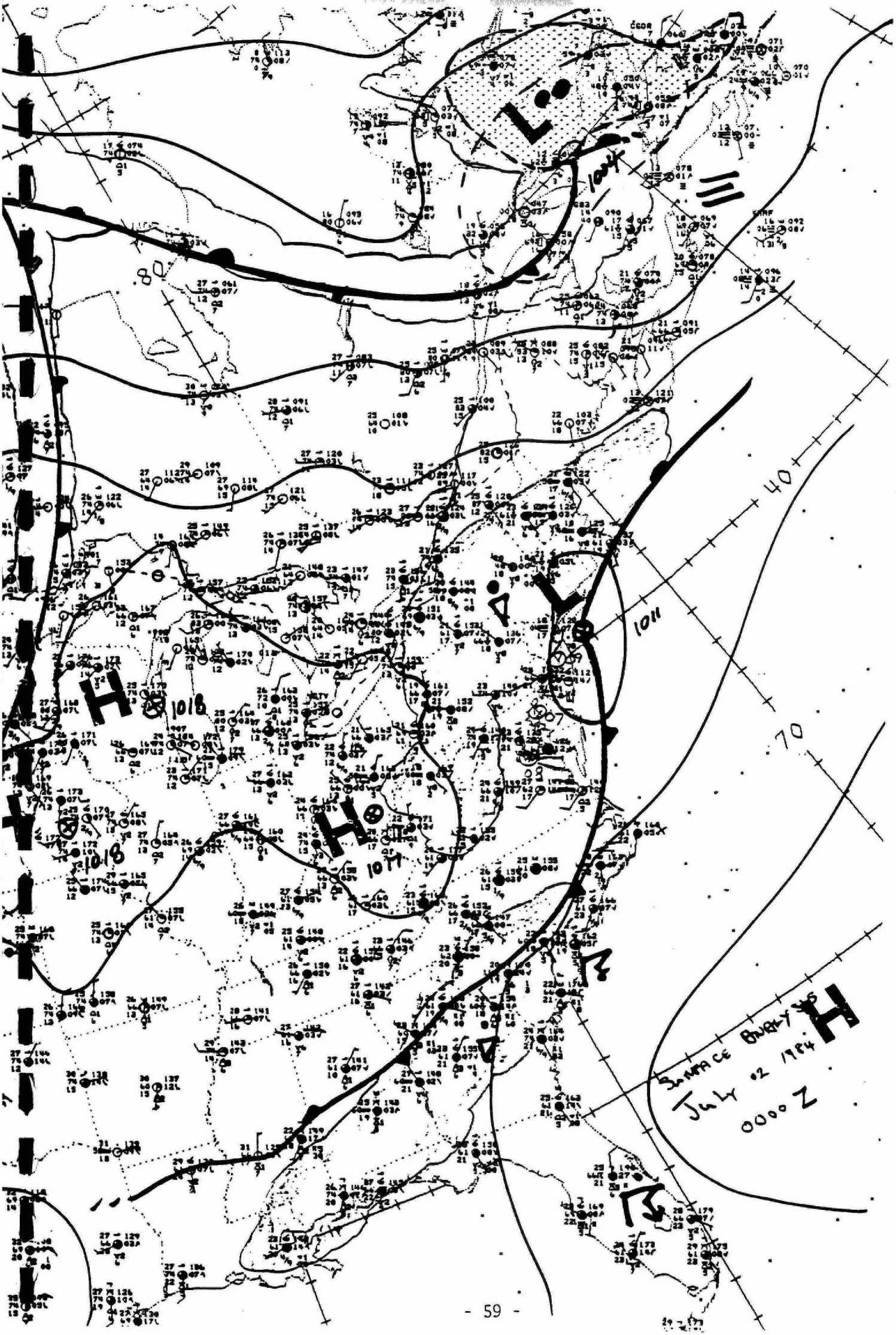

1022
1008
80
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SURFACE ANALYSIS
JUNE 30 1984
1800Z

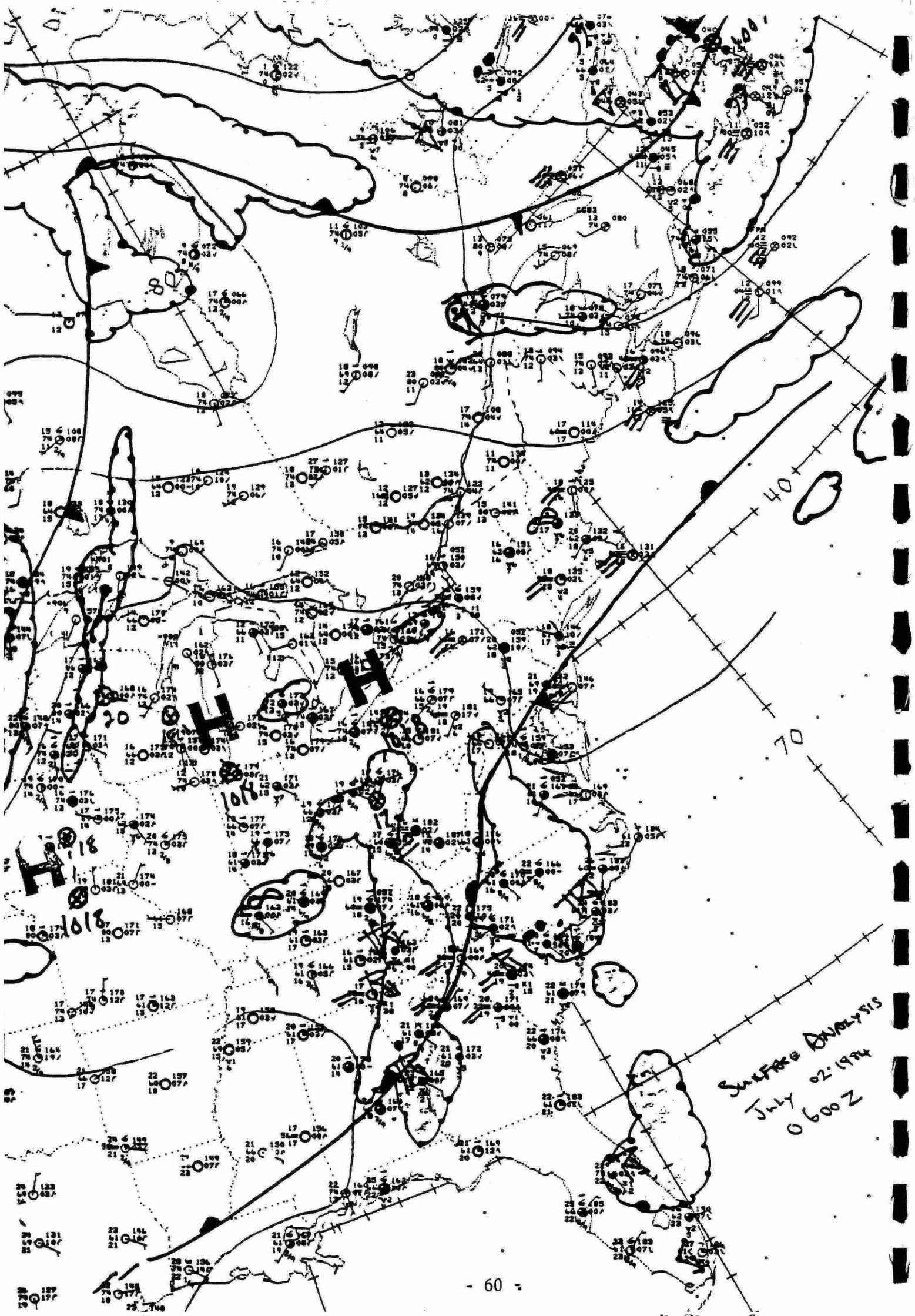

1010
1020
H
L
40
70
Surface Analysis
July 01 1974
0000 Z

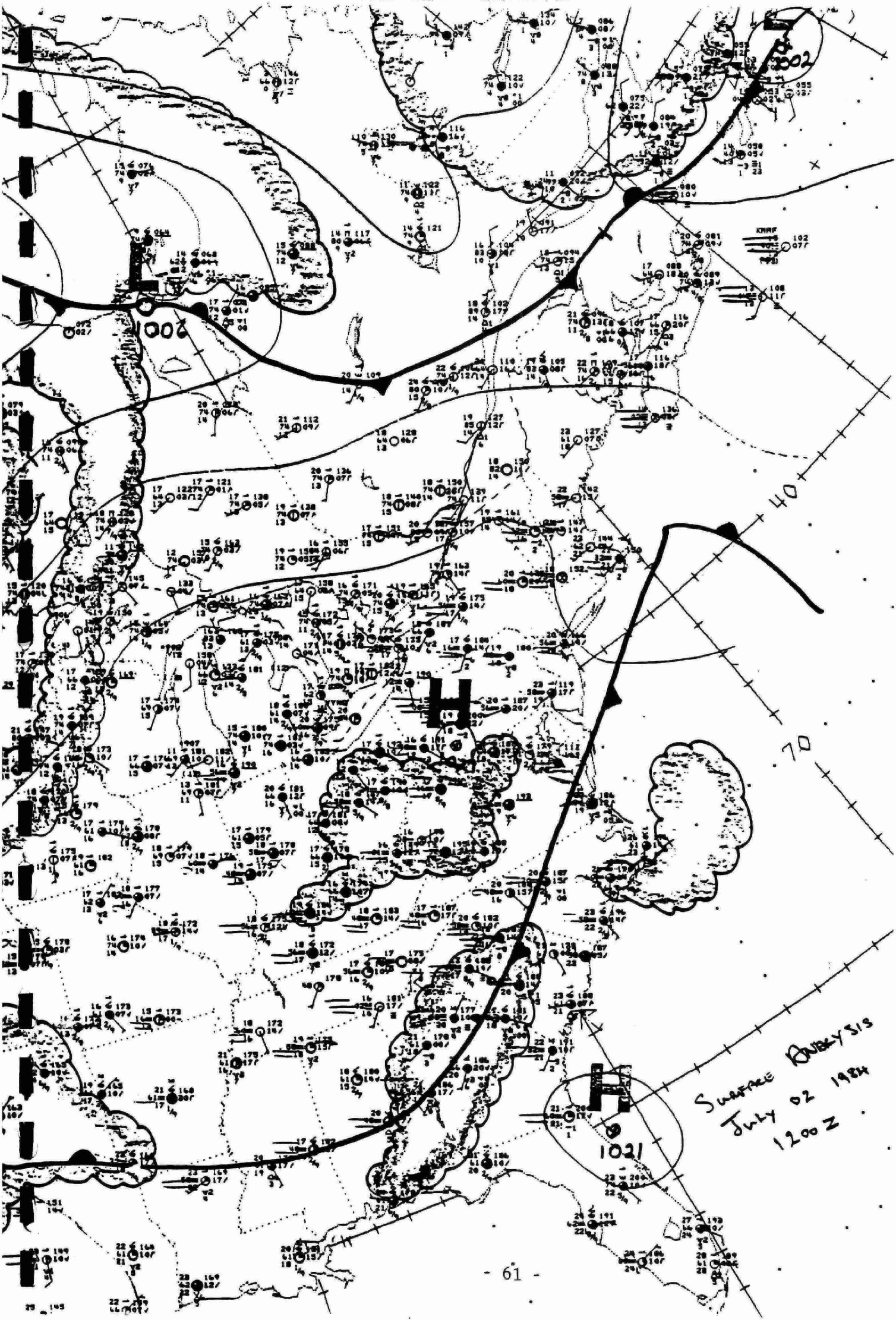

L
1008
H
1019
SURFACE ANALYSIS
JULY 01 1984
0600 Z

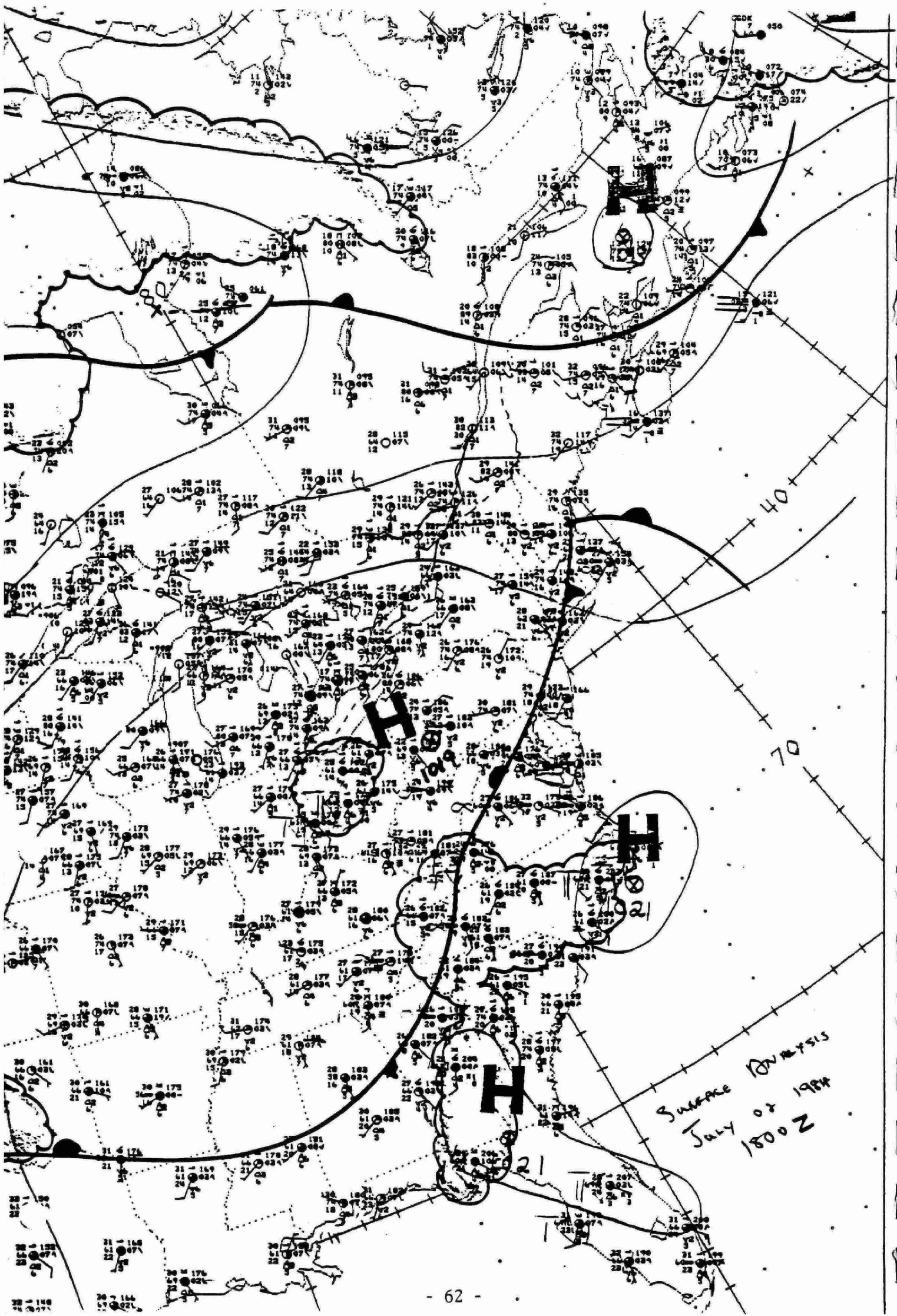

L
H
1021
L
1007
H
1019
SURFACE ANALYSIS
July 01 1984.
1200 Z

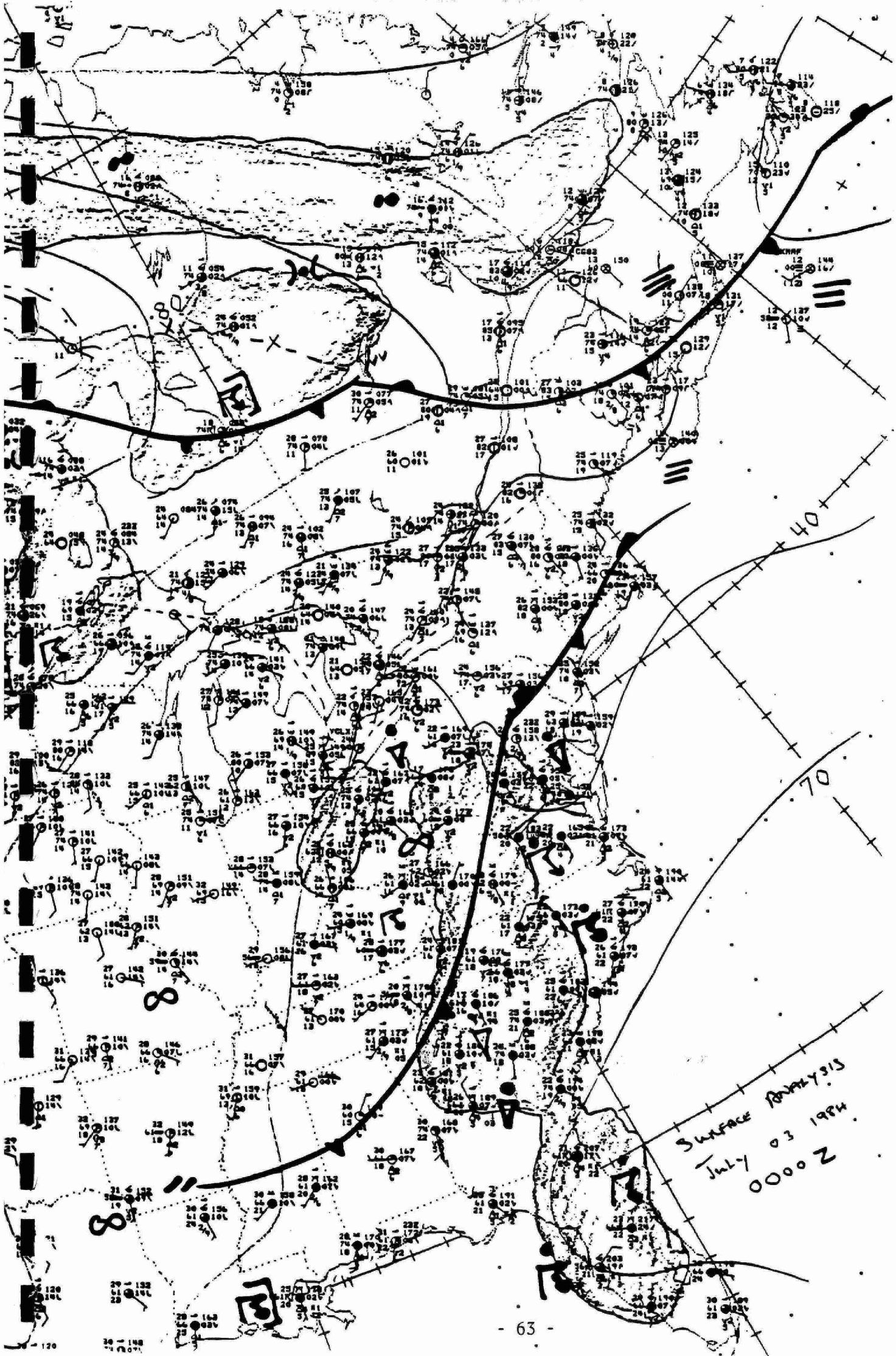

L
H
1020
1009
40
70
Surface Analysis
July 01 1984
1800 Z

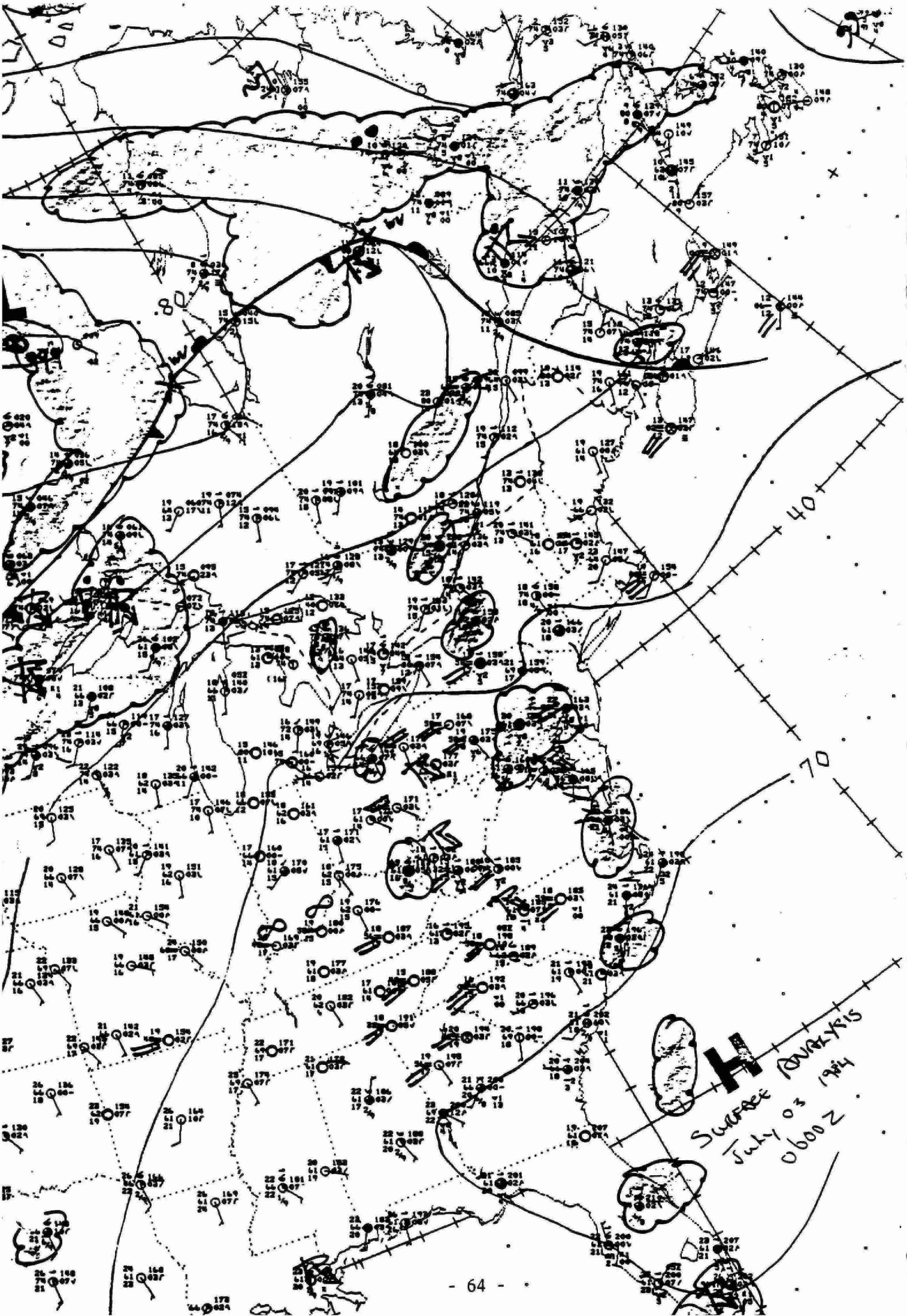

L
1004
80
40
70
1011
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1018
H
1018
H
1011
L
L
L
H
SURFACE ANALYSIS
JULY 12 1964
0000 Z

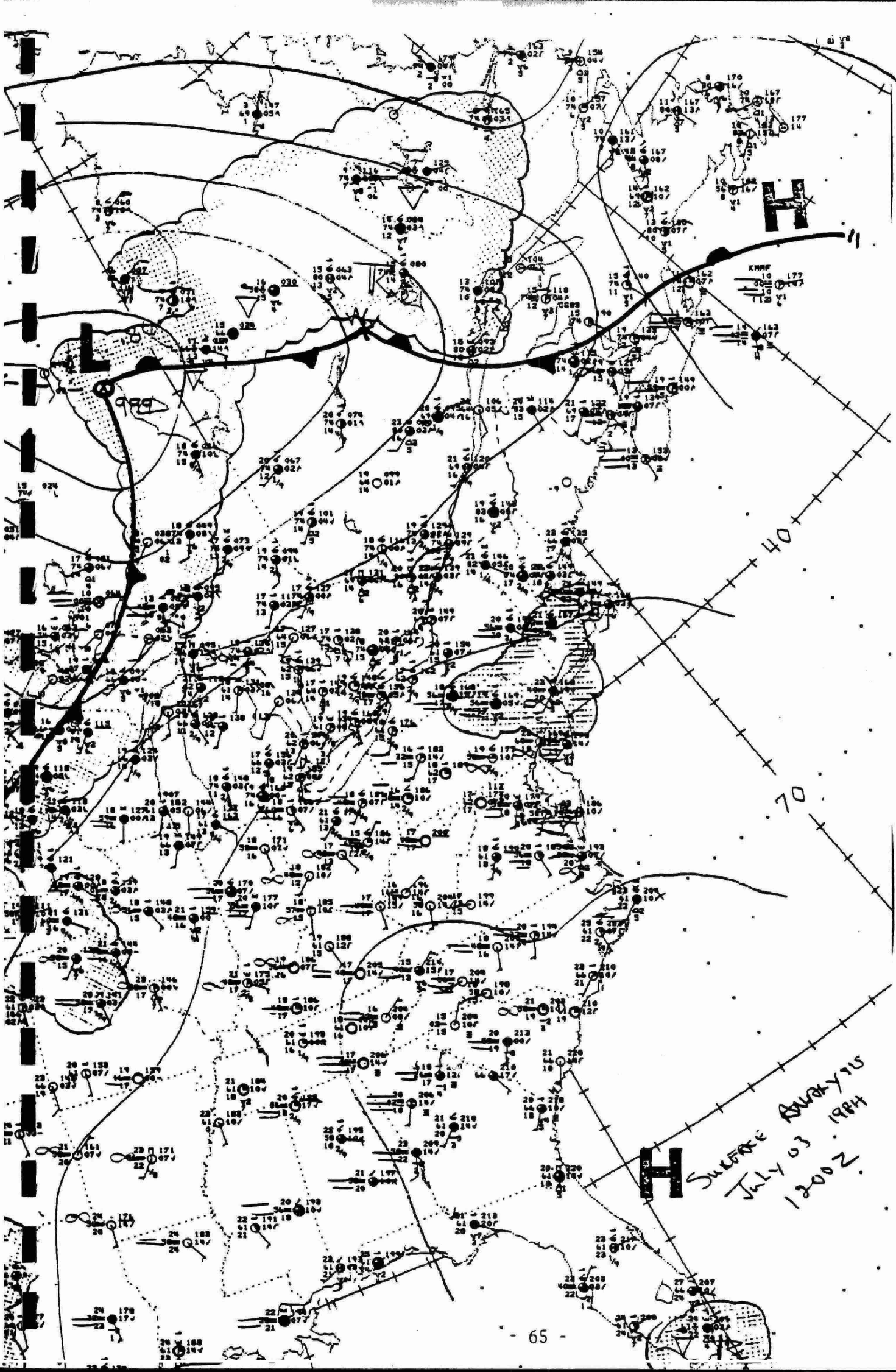

H
1018
H
1018
H
1018
40
70
SURFACE ANALYSIS
JULY 02 1994
0600Z

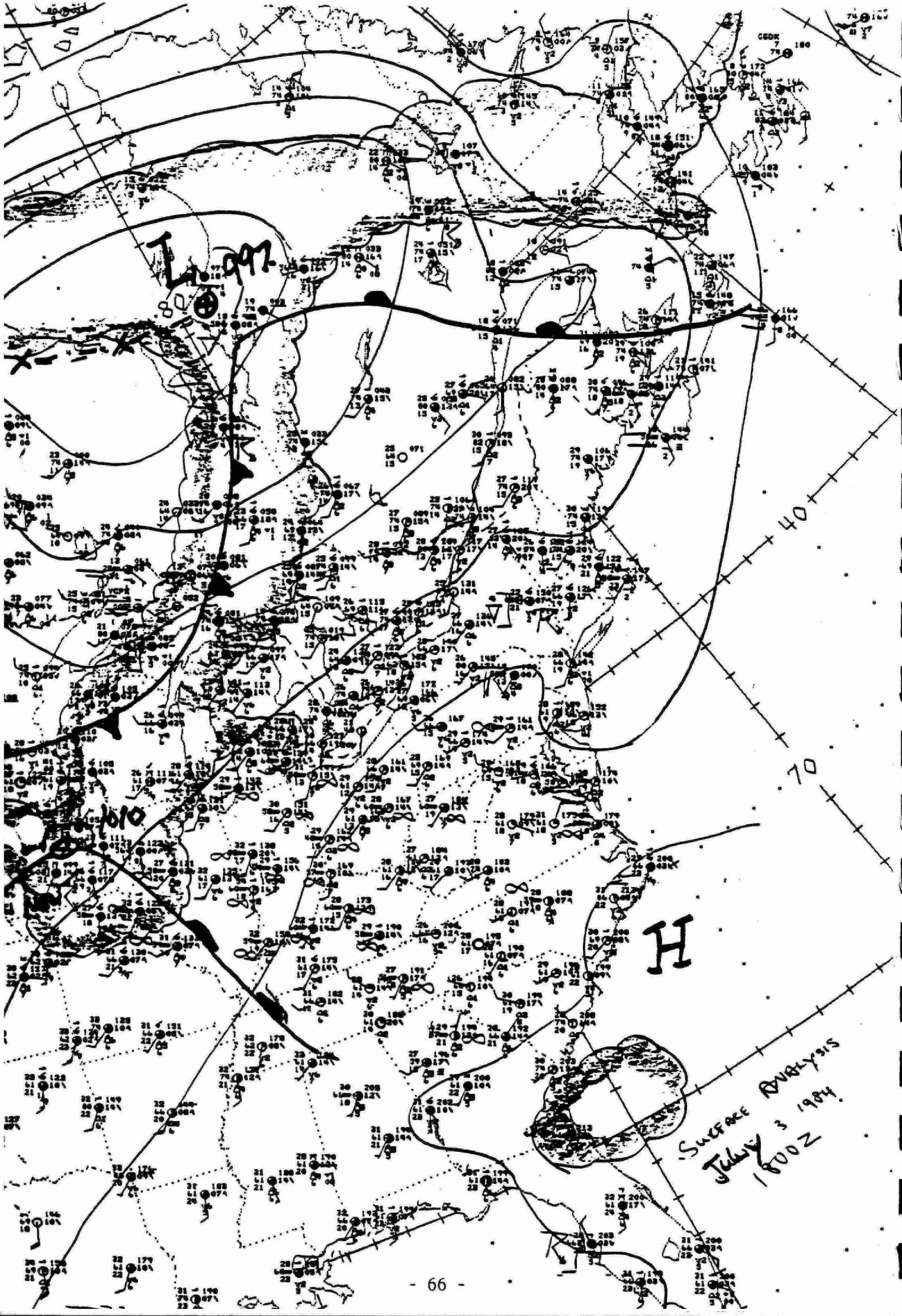

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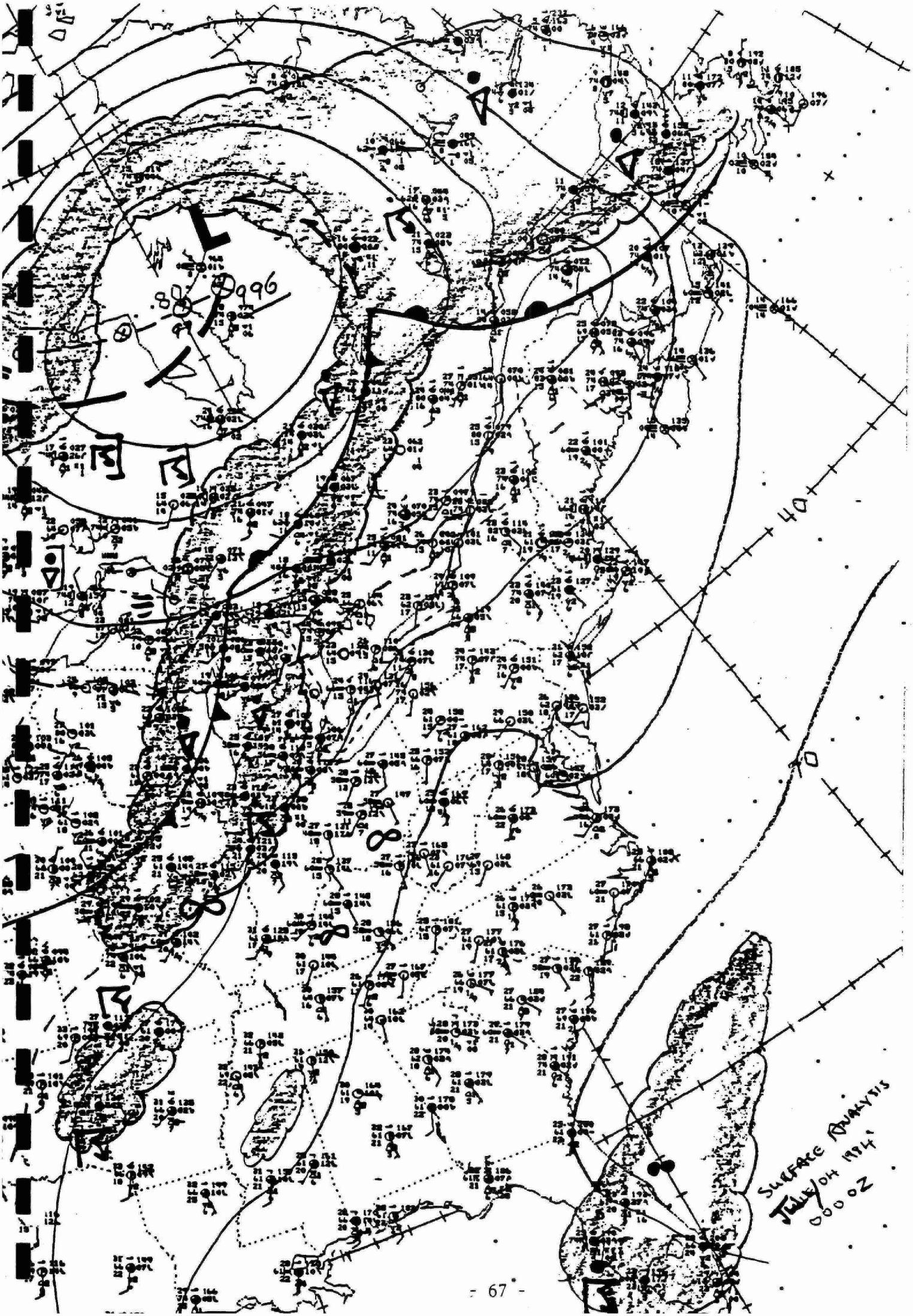

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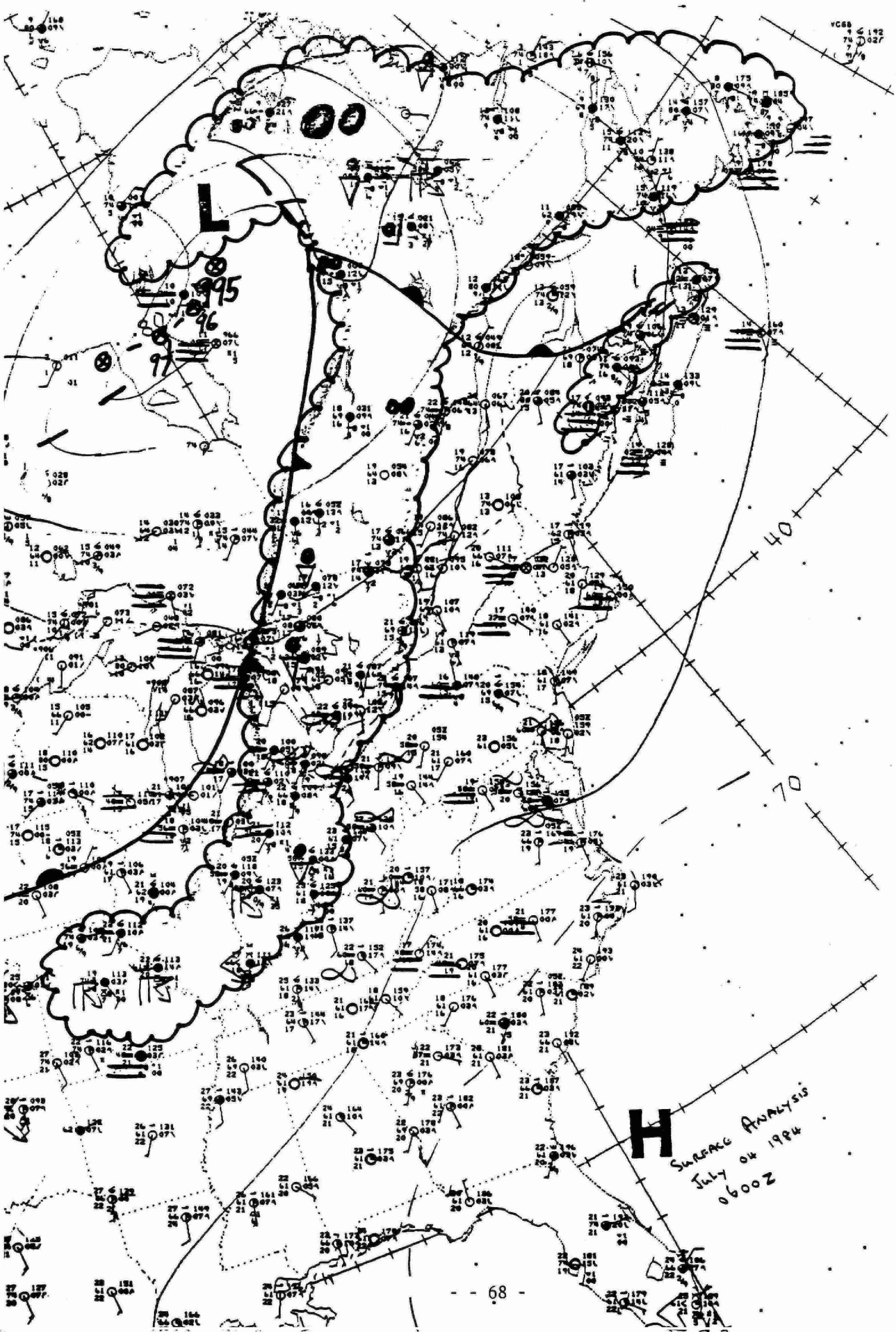

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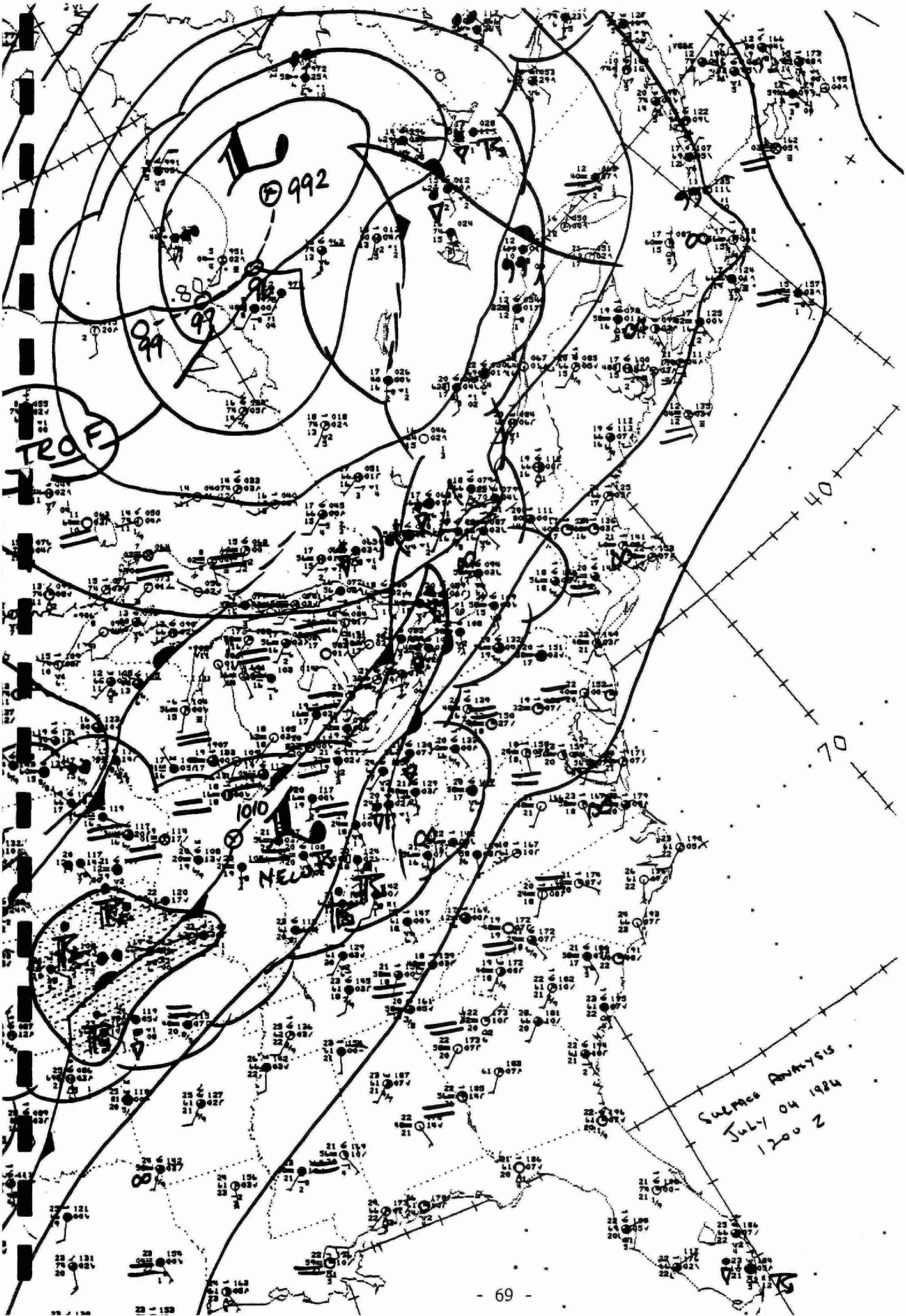

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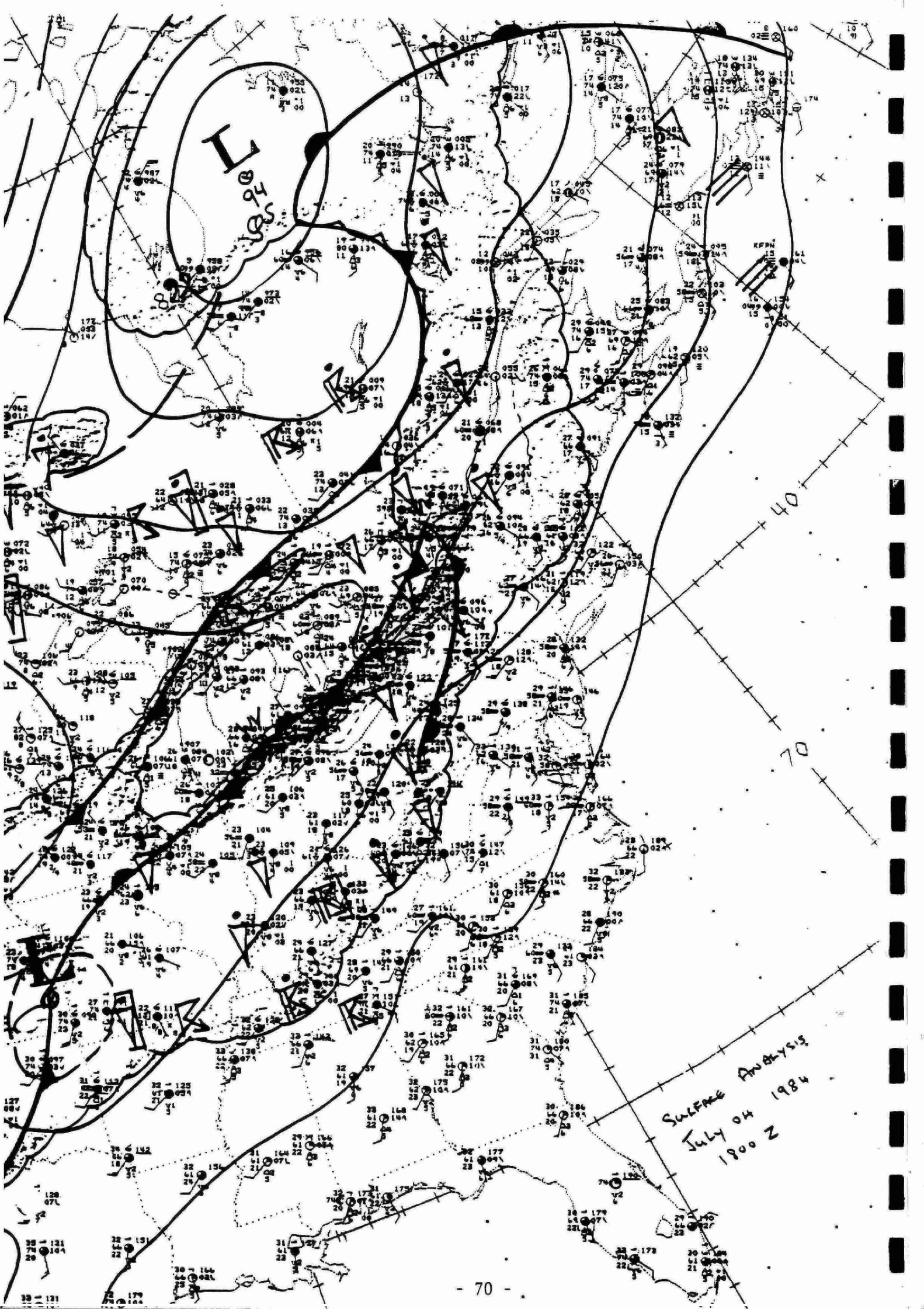

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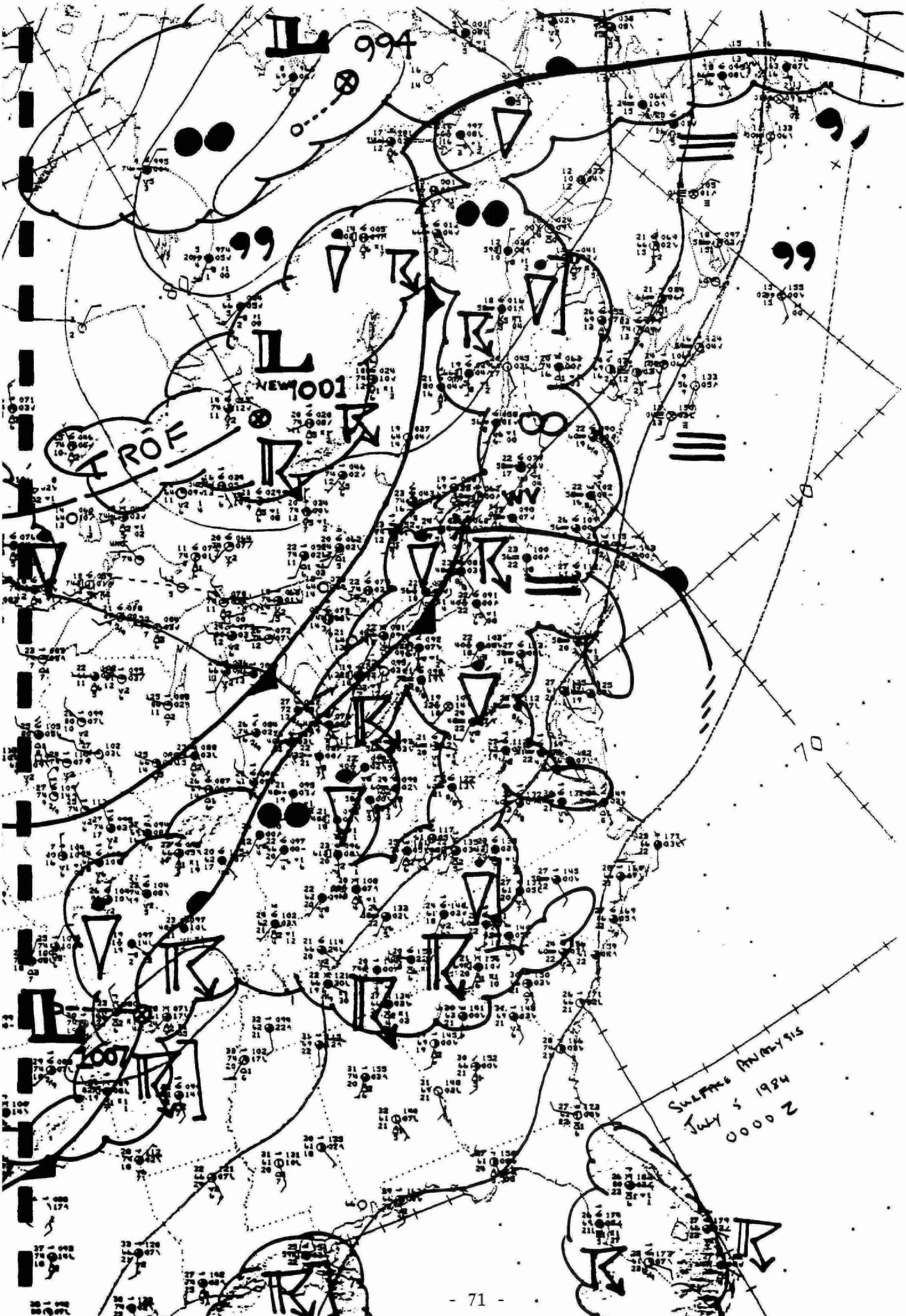

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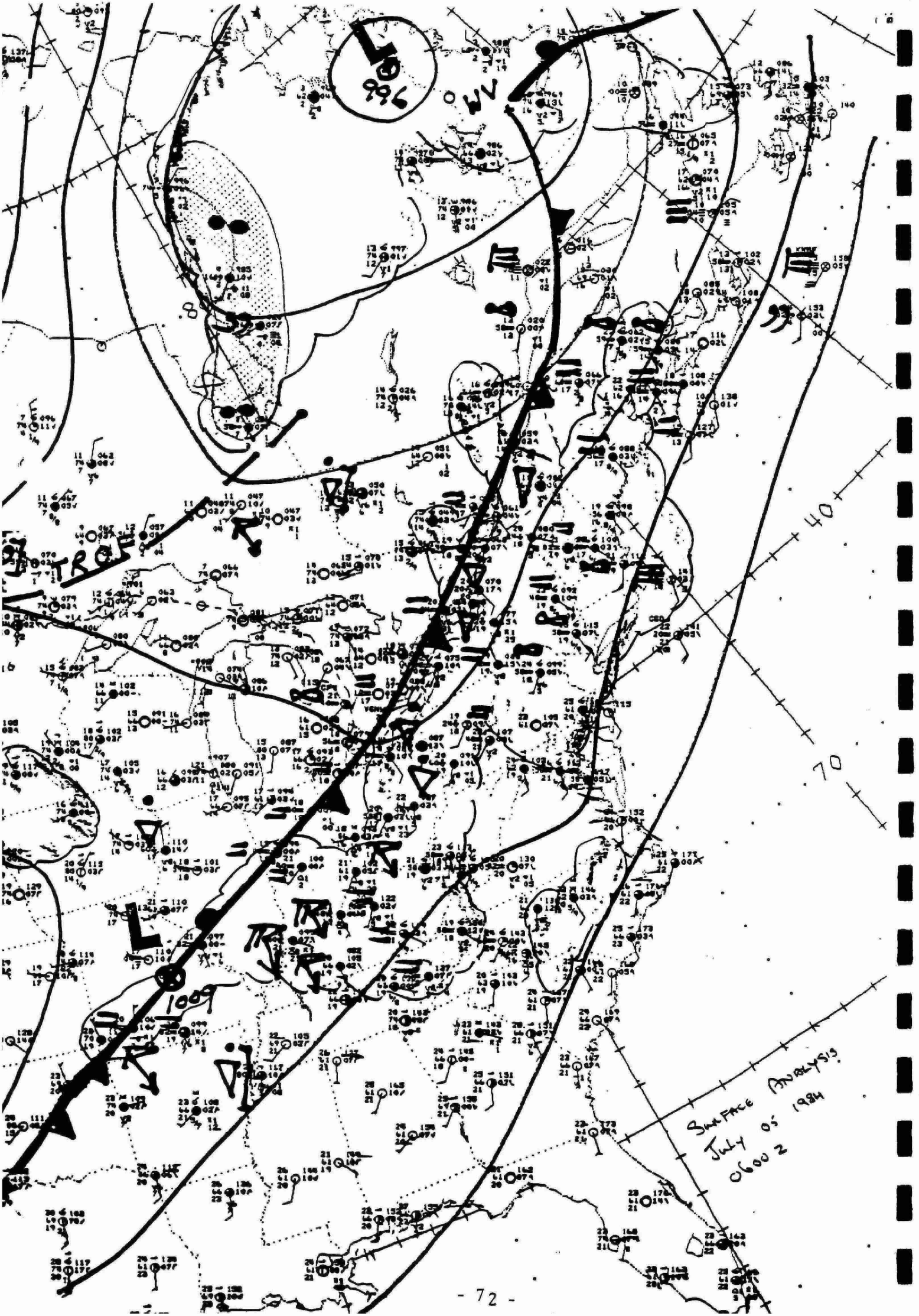


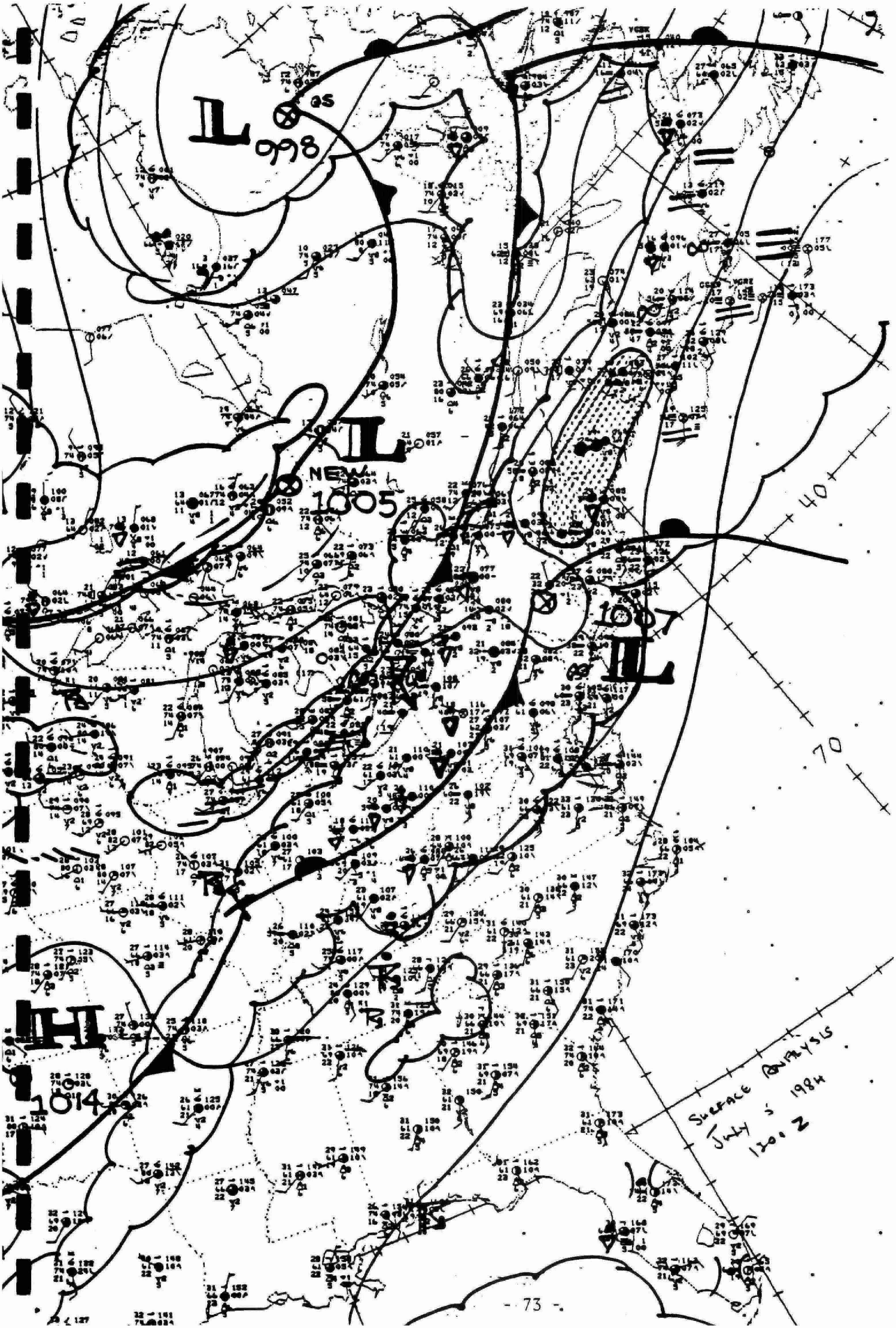
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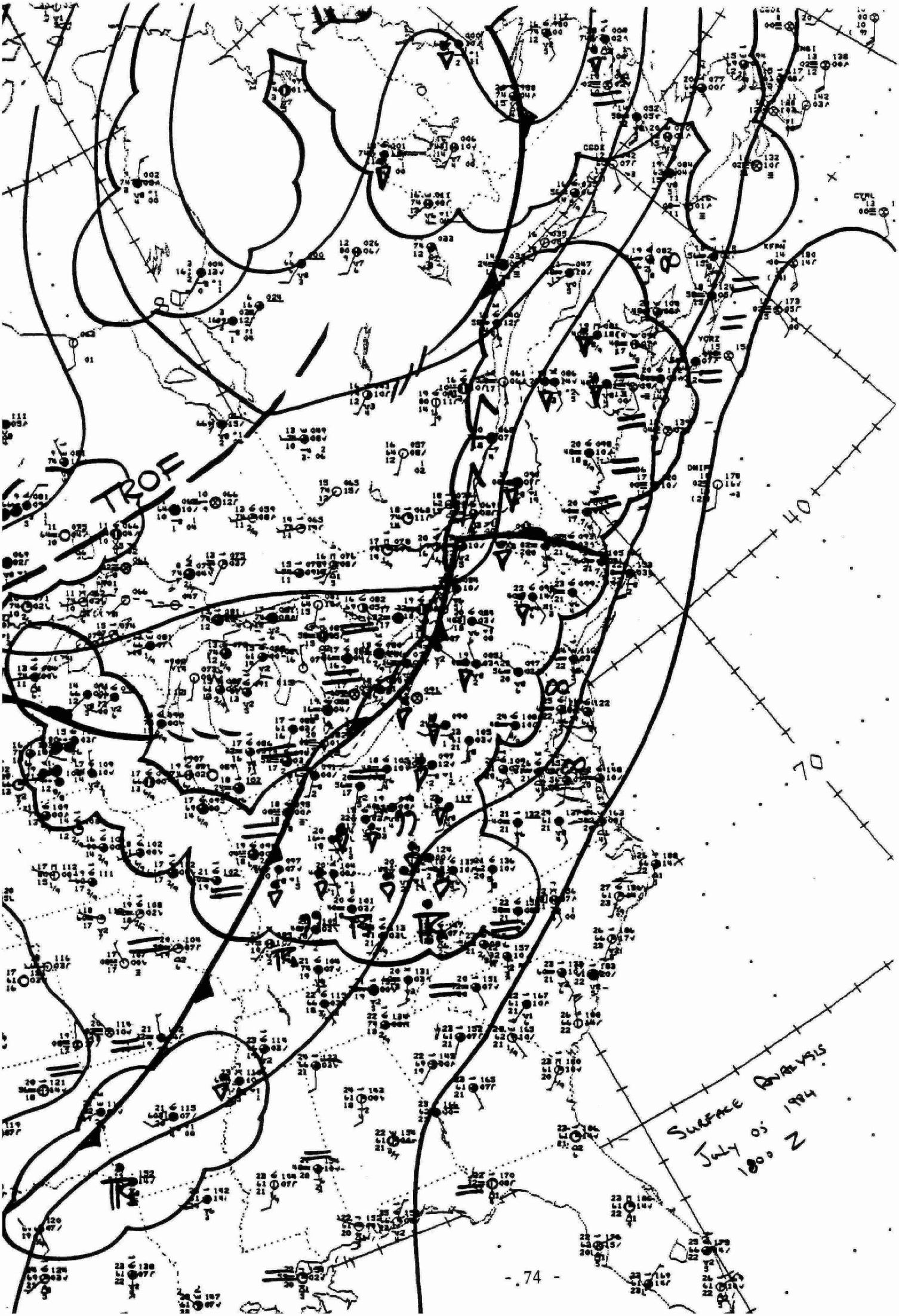

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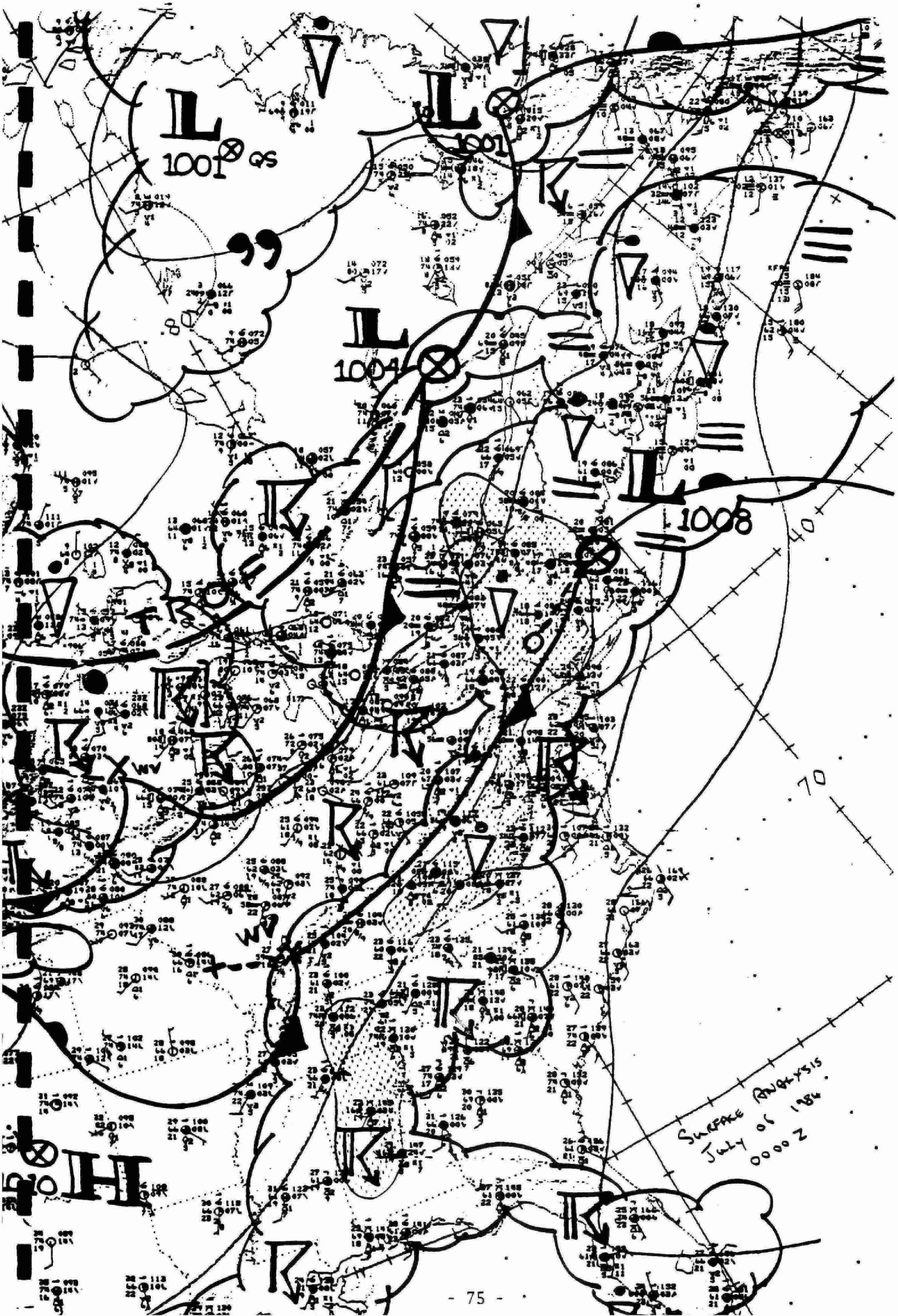

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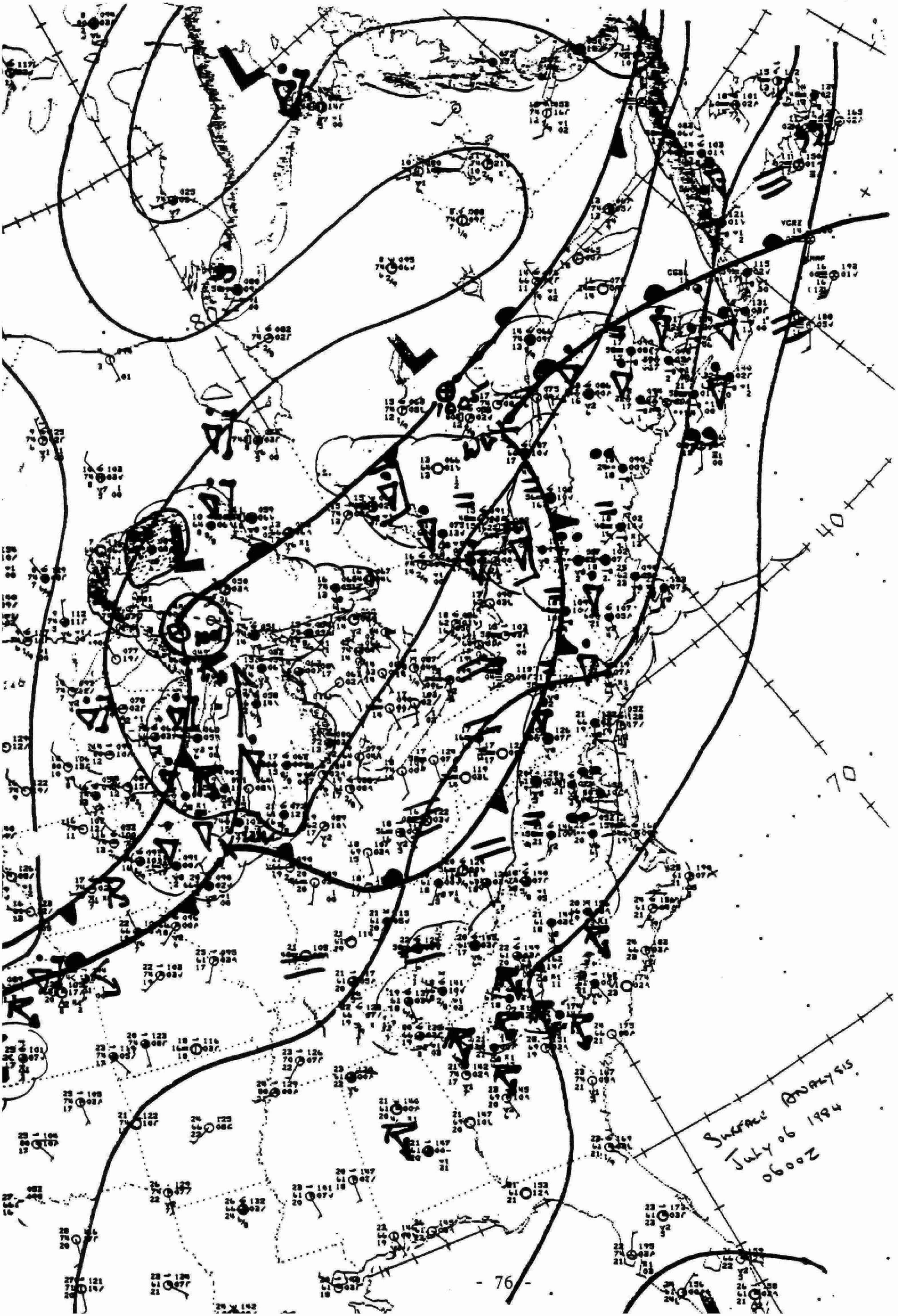

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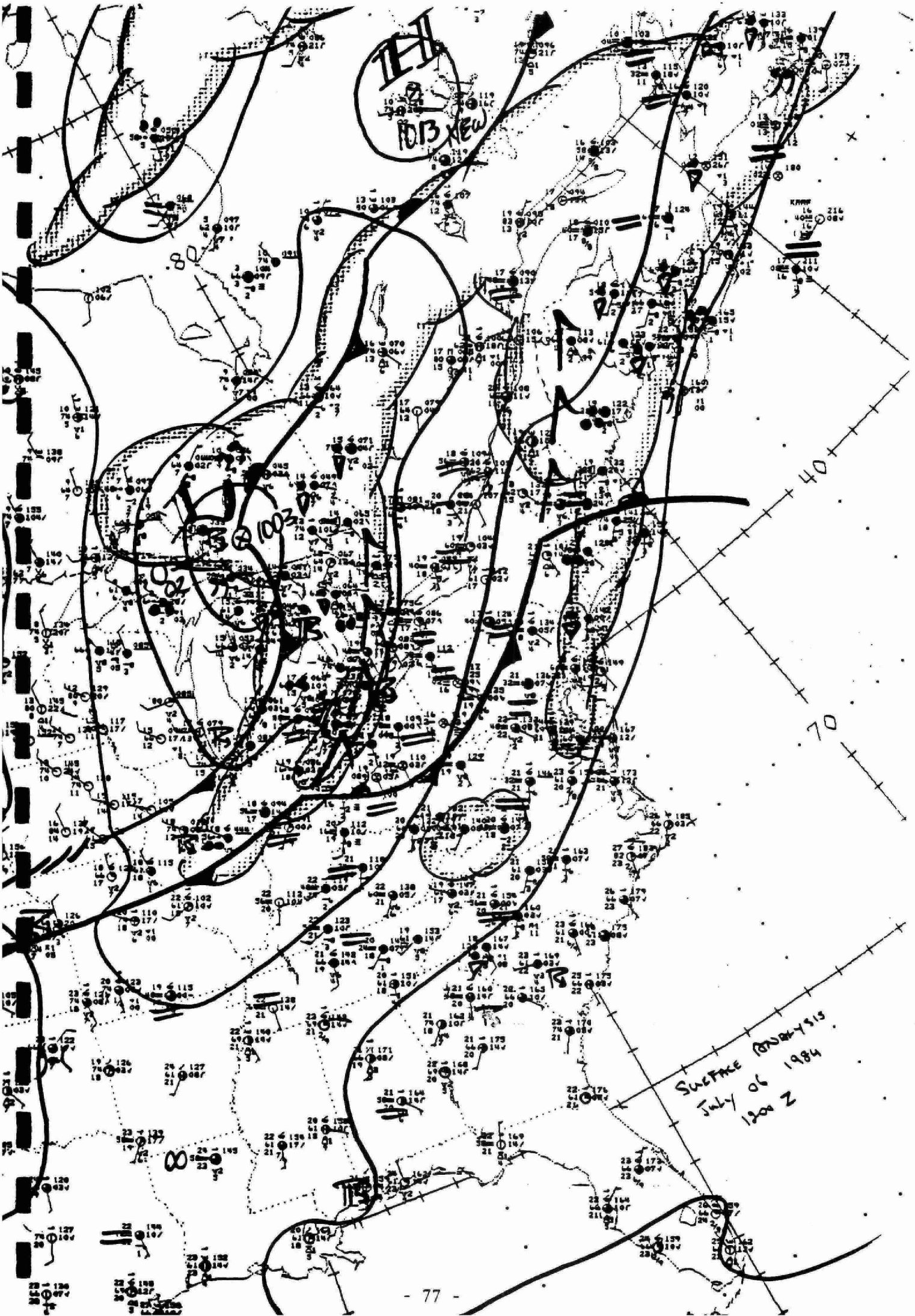

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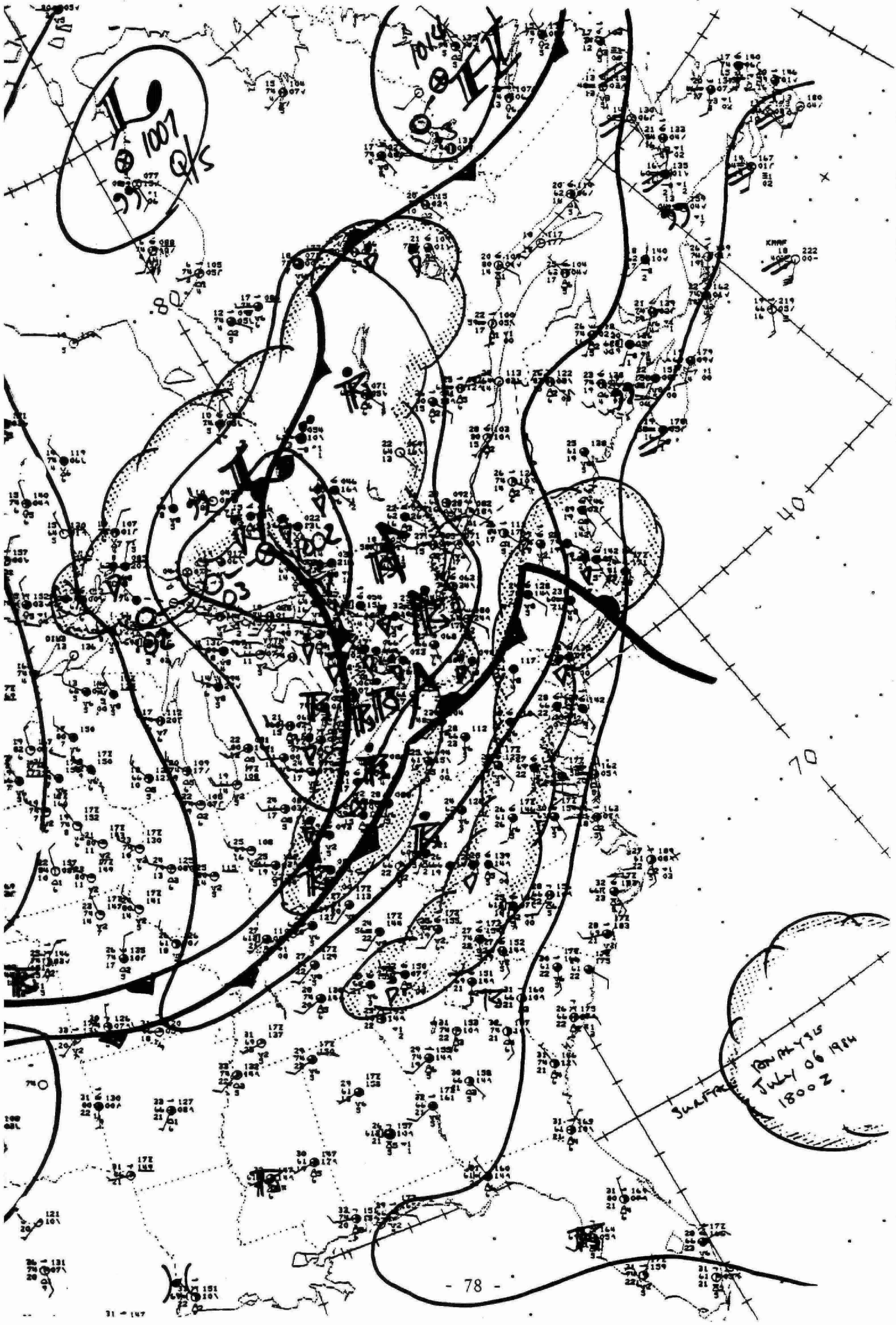

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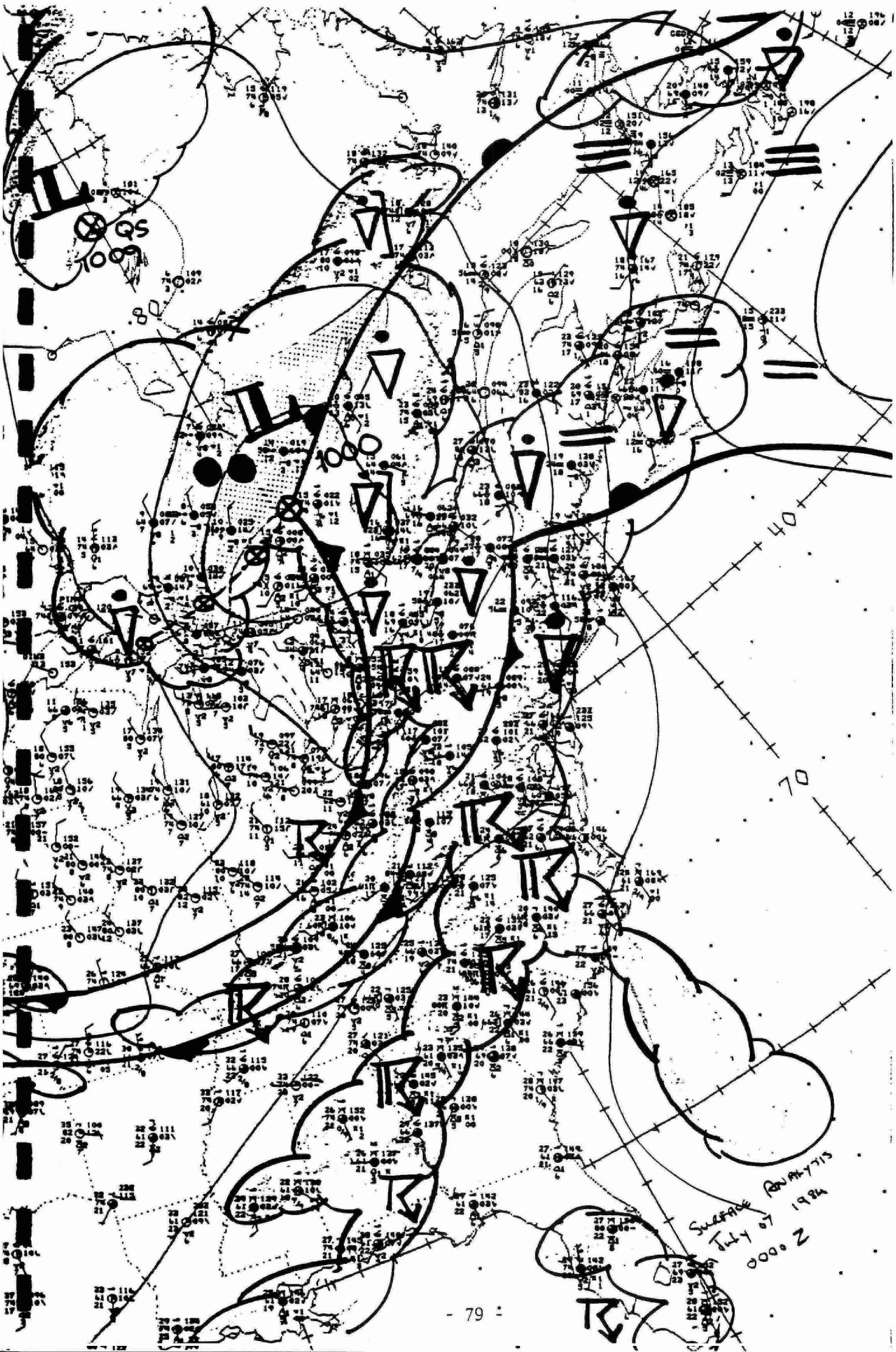

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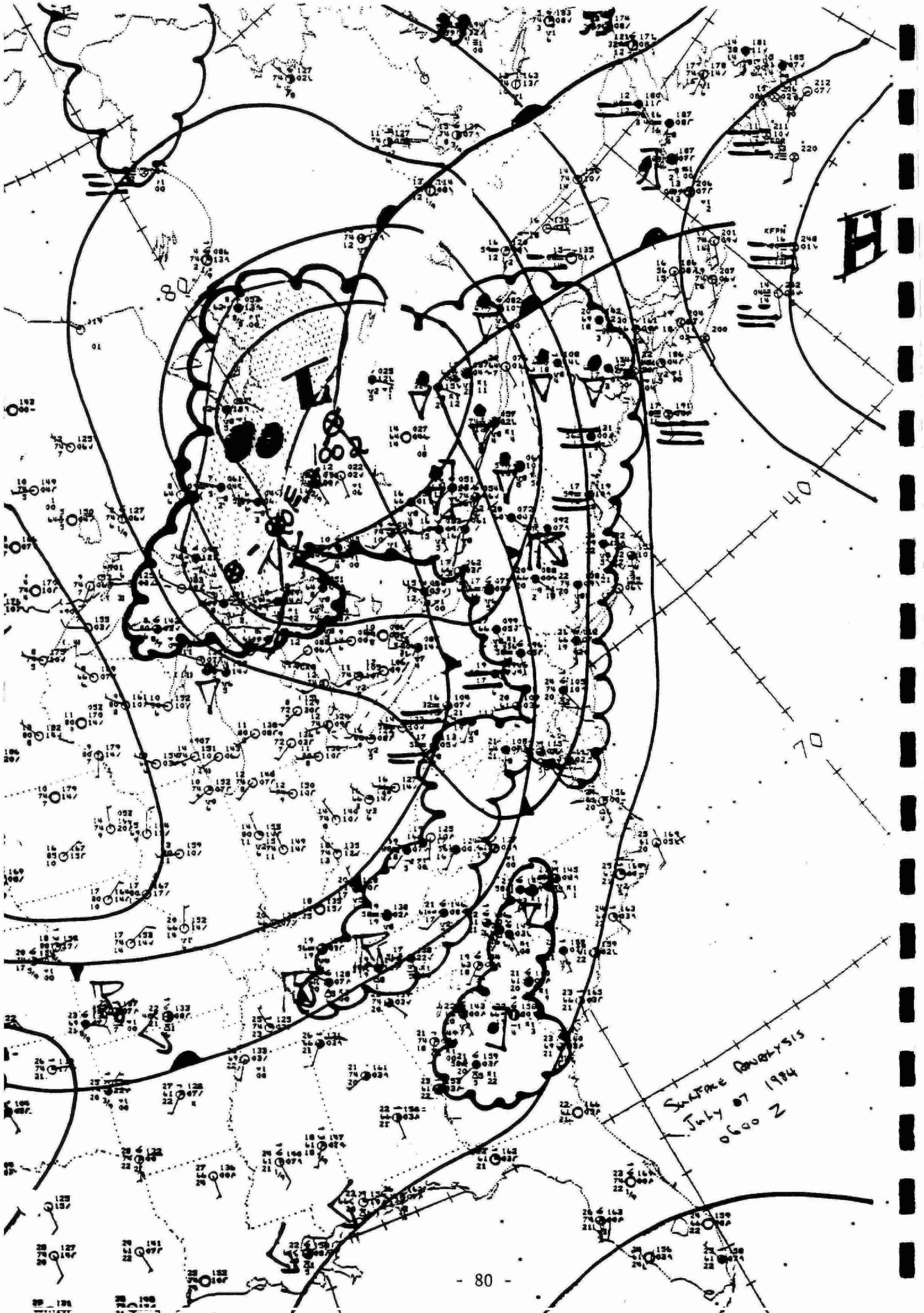

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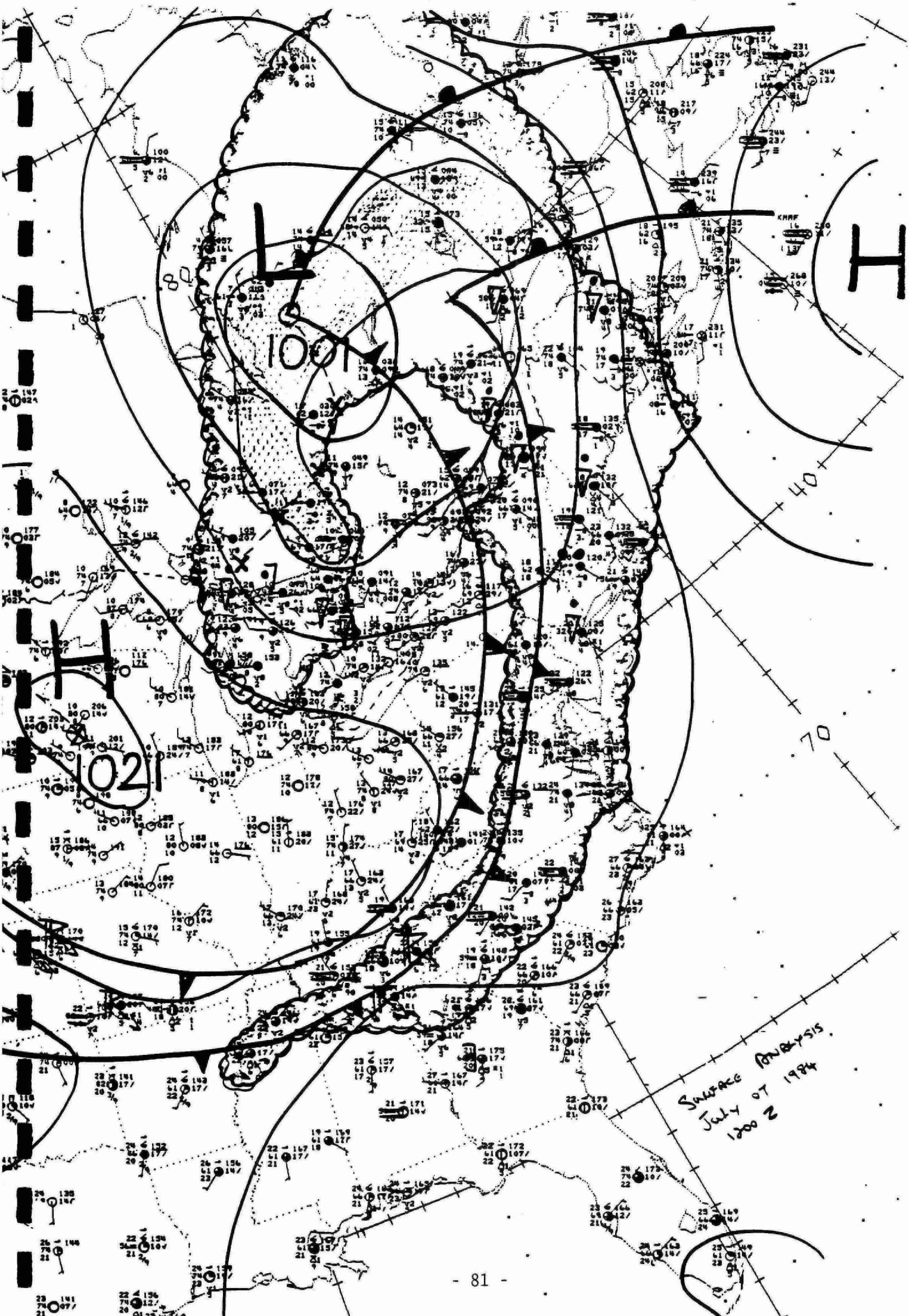

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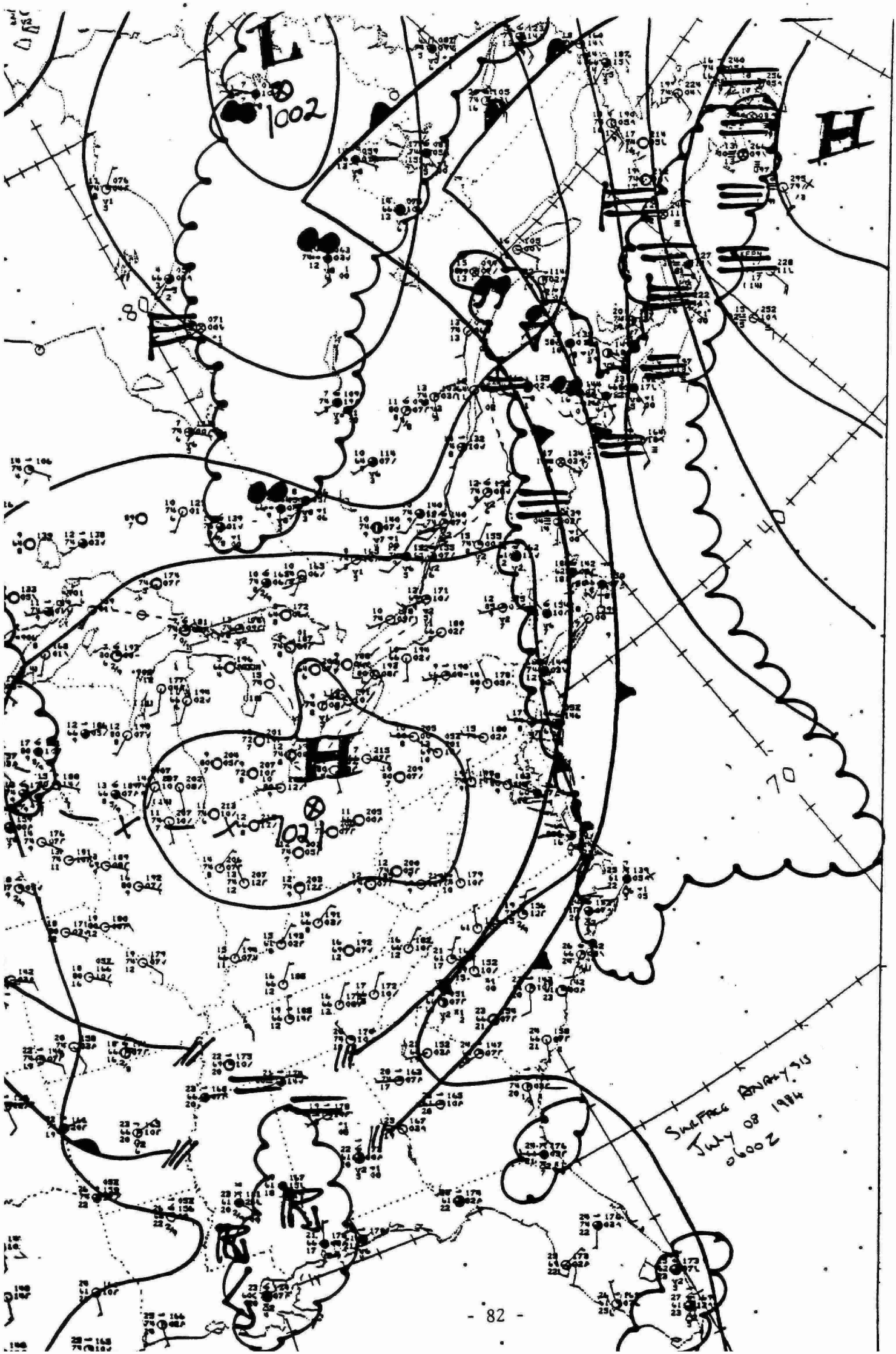

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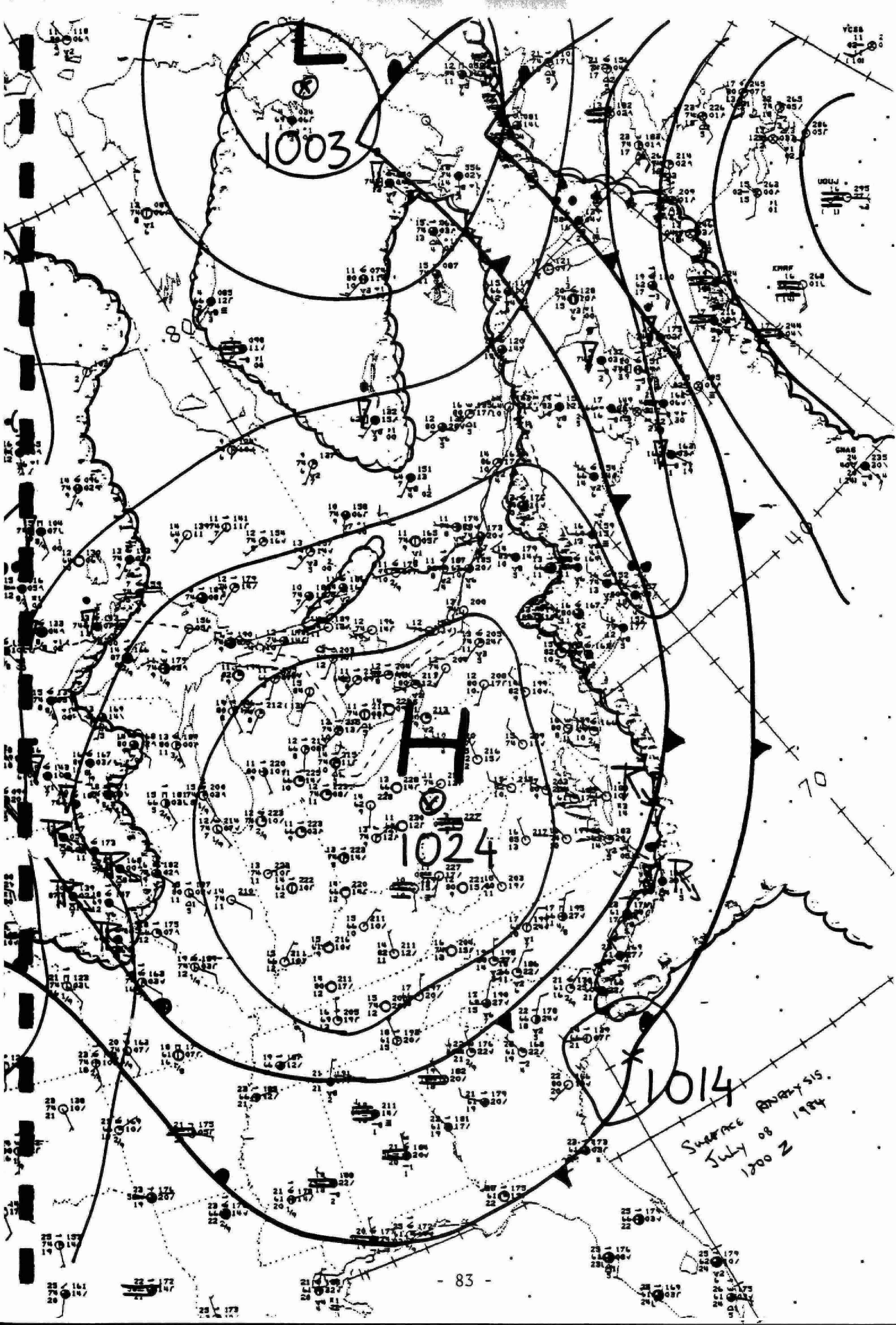

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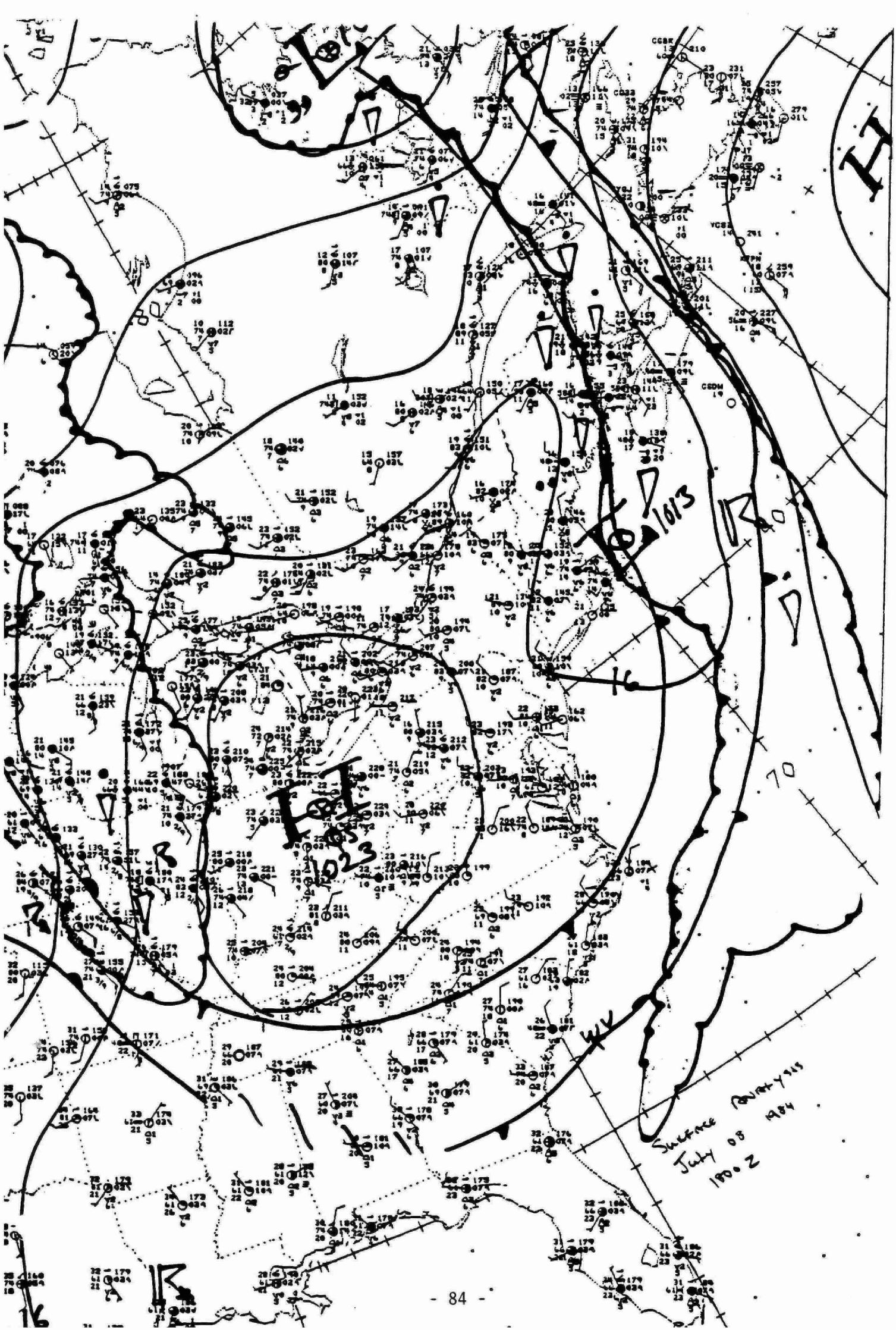

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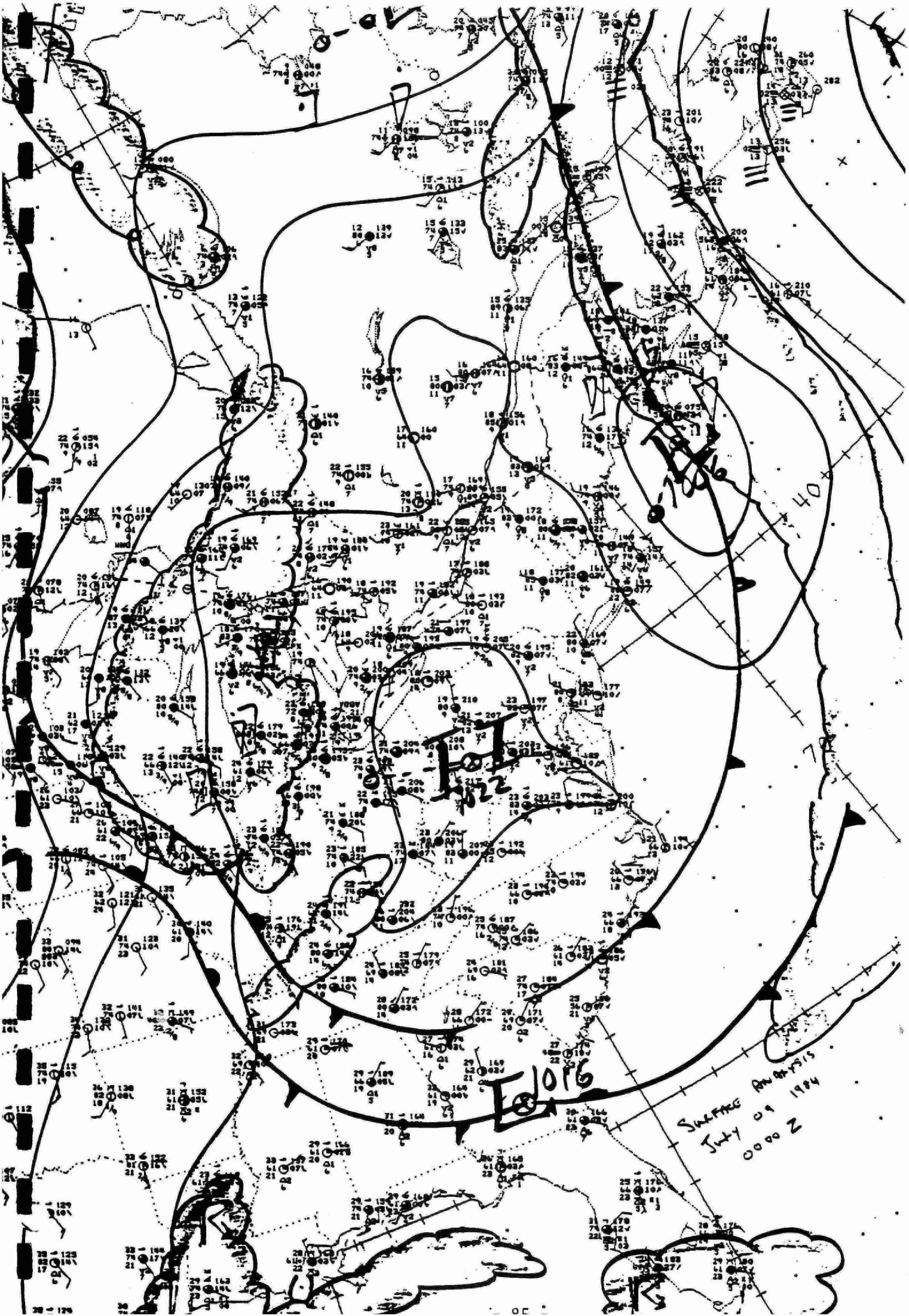

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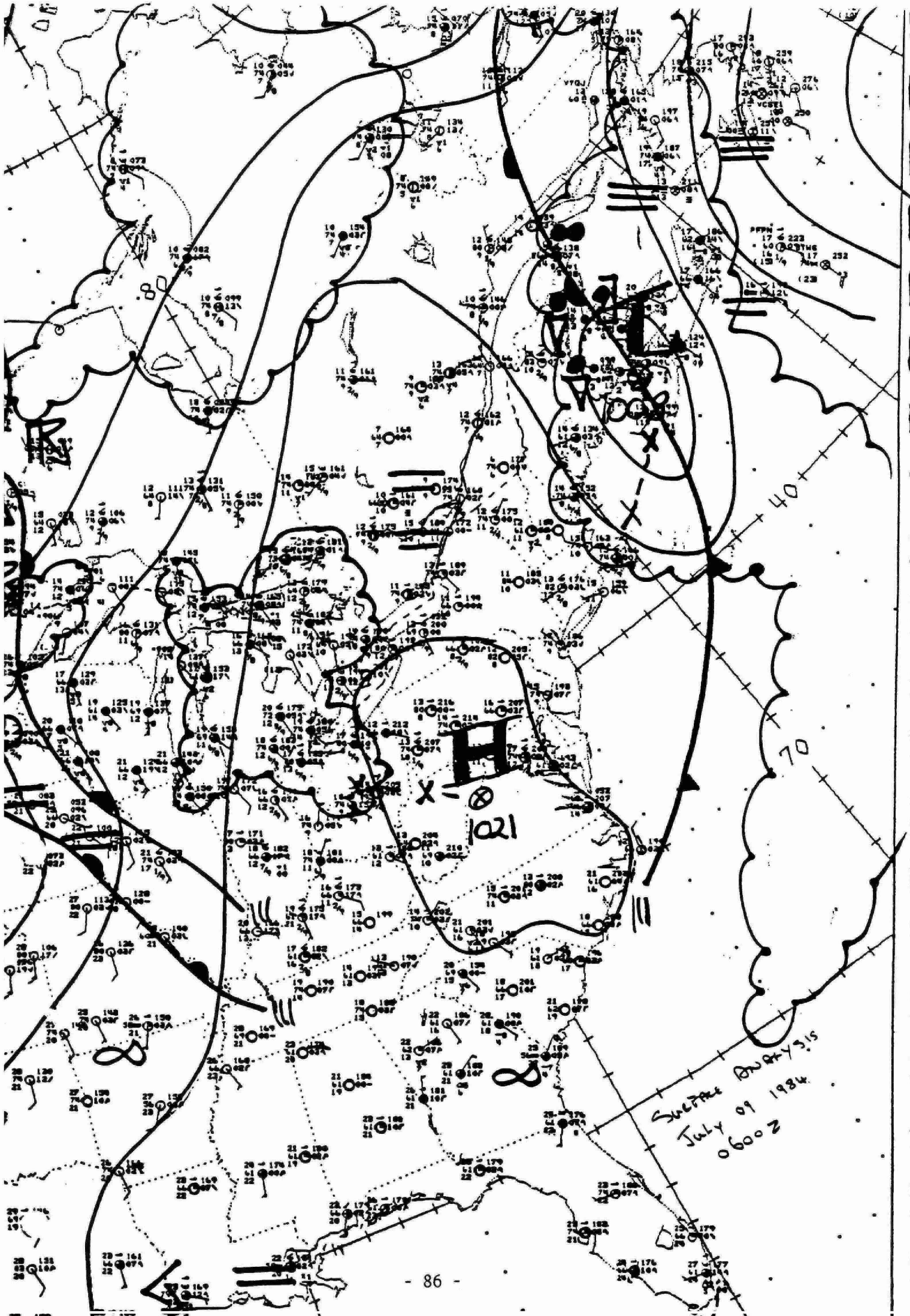

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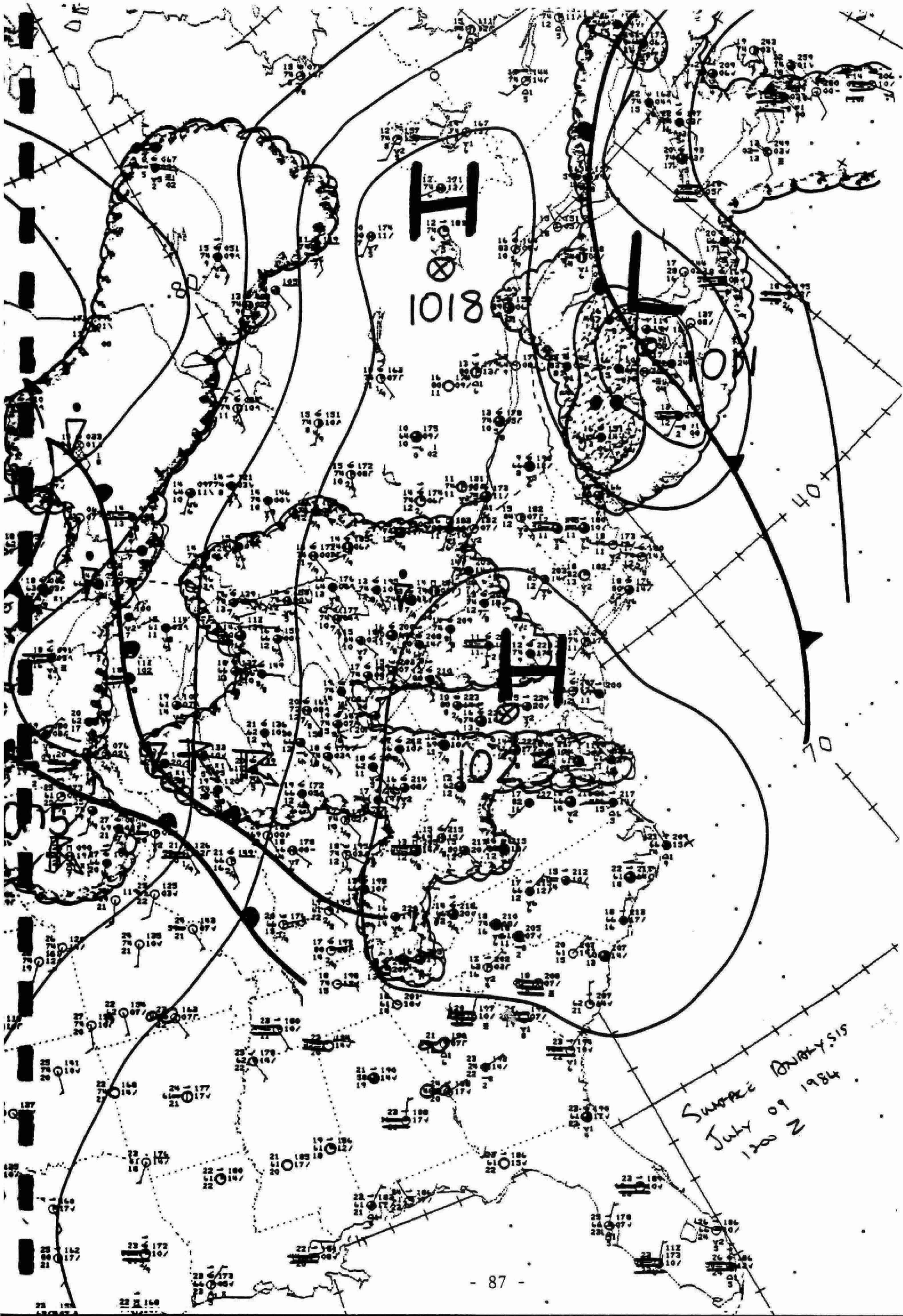

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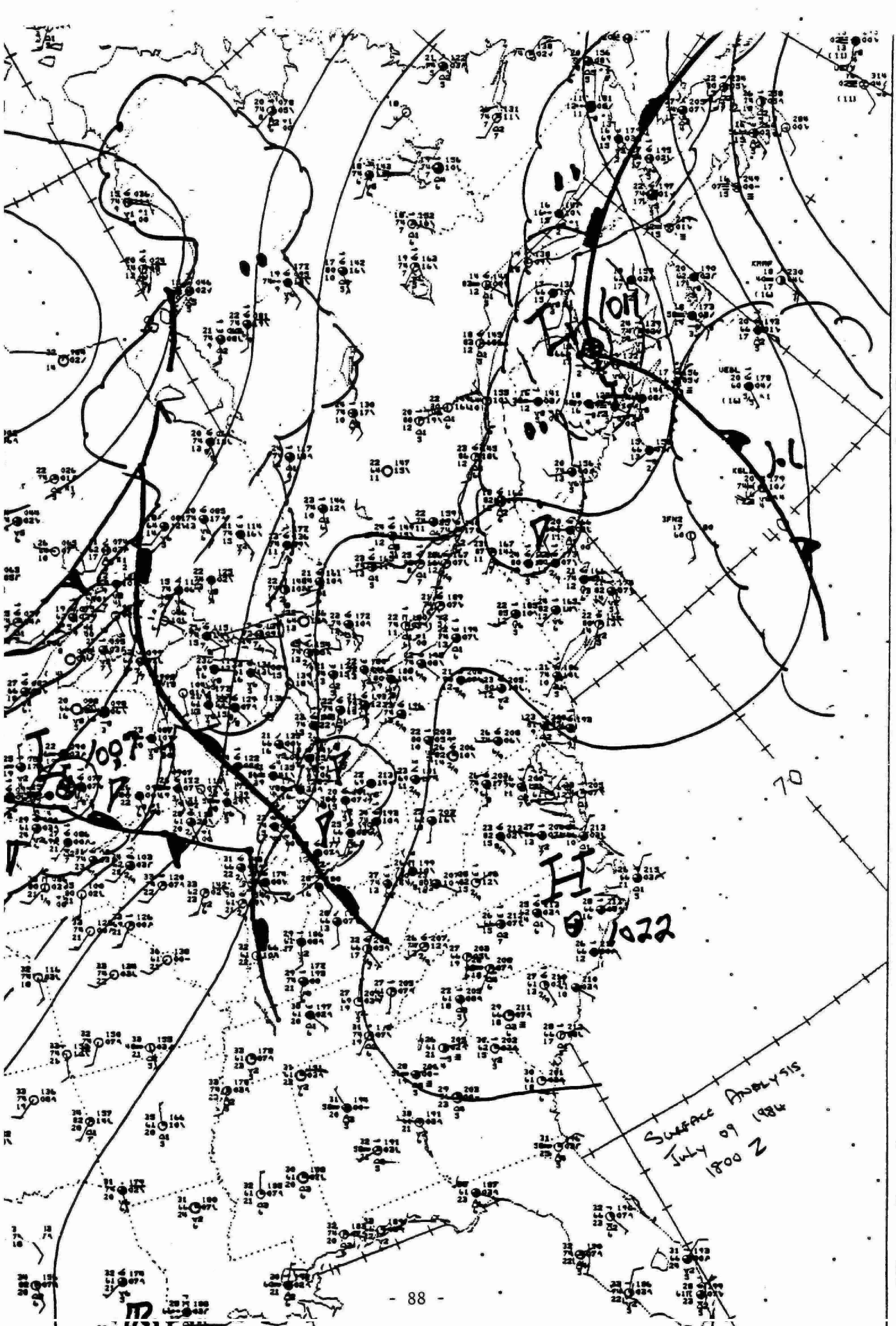

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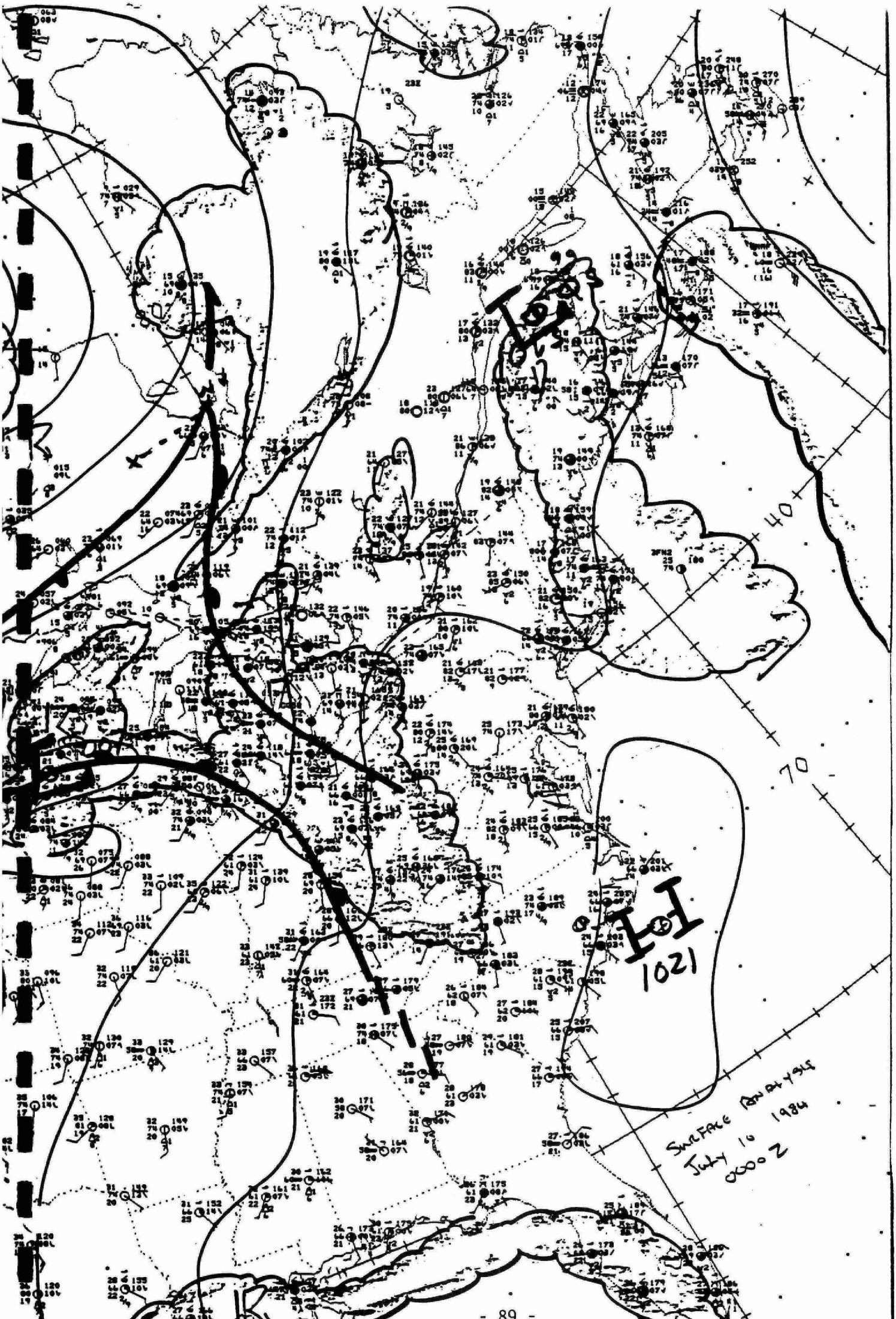

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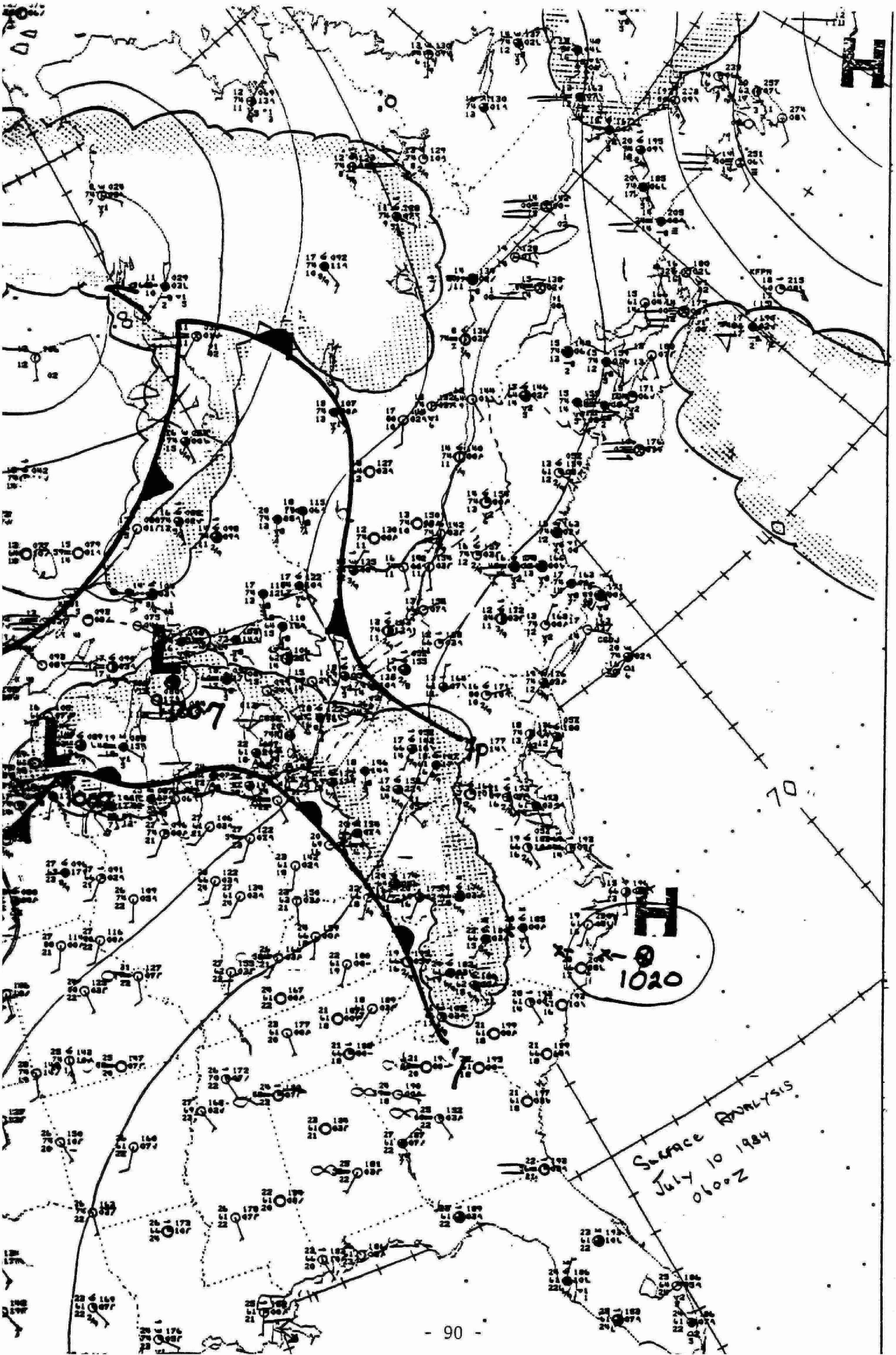

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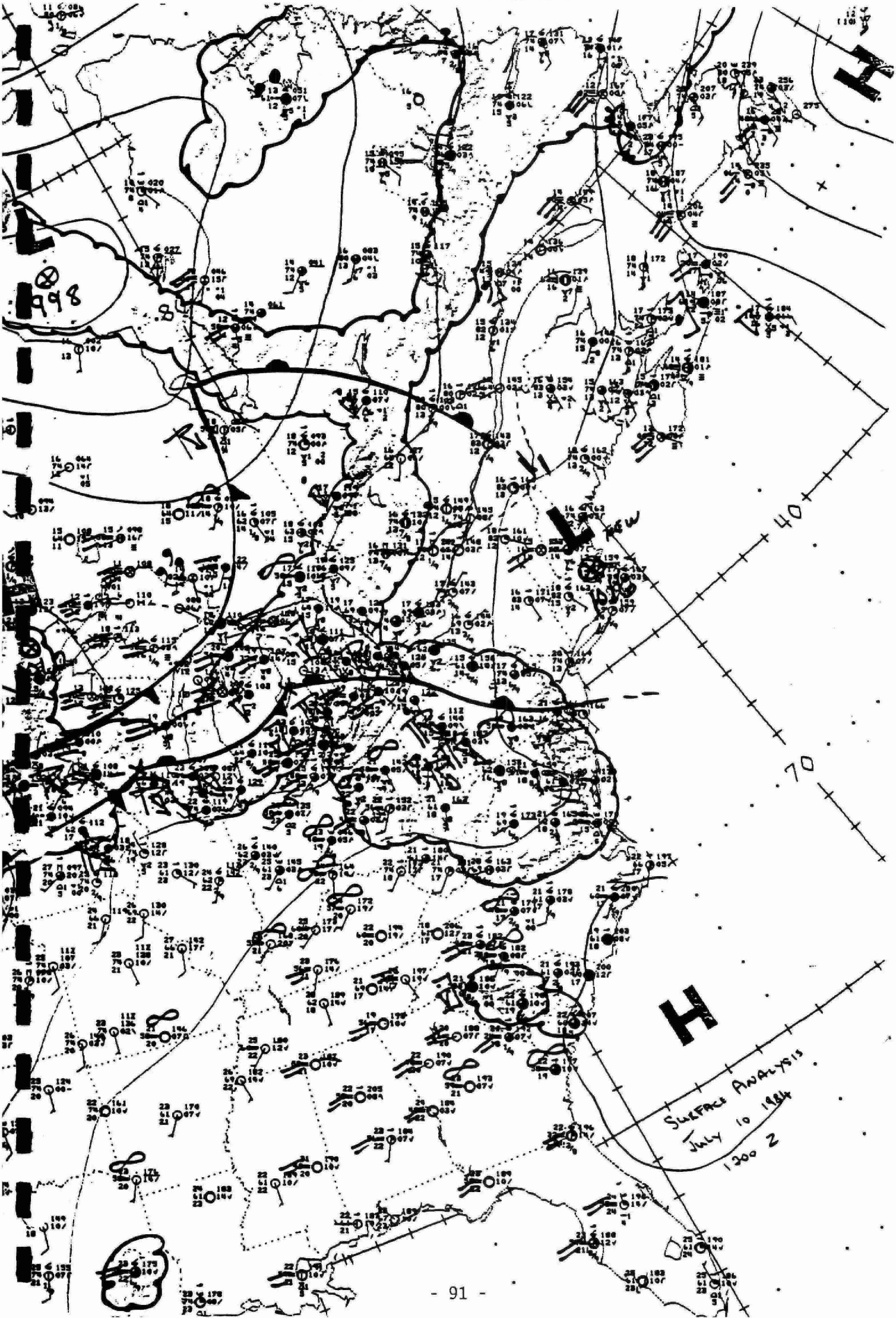

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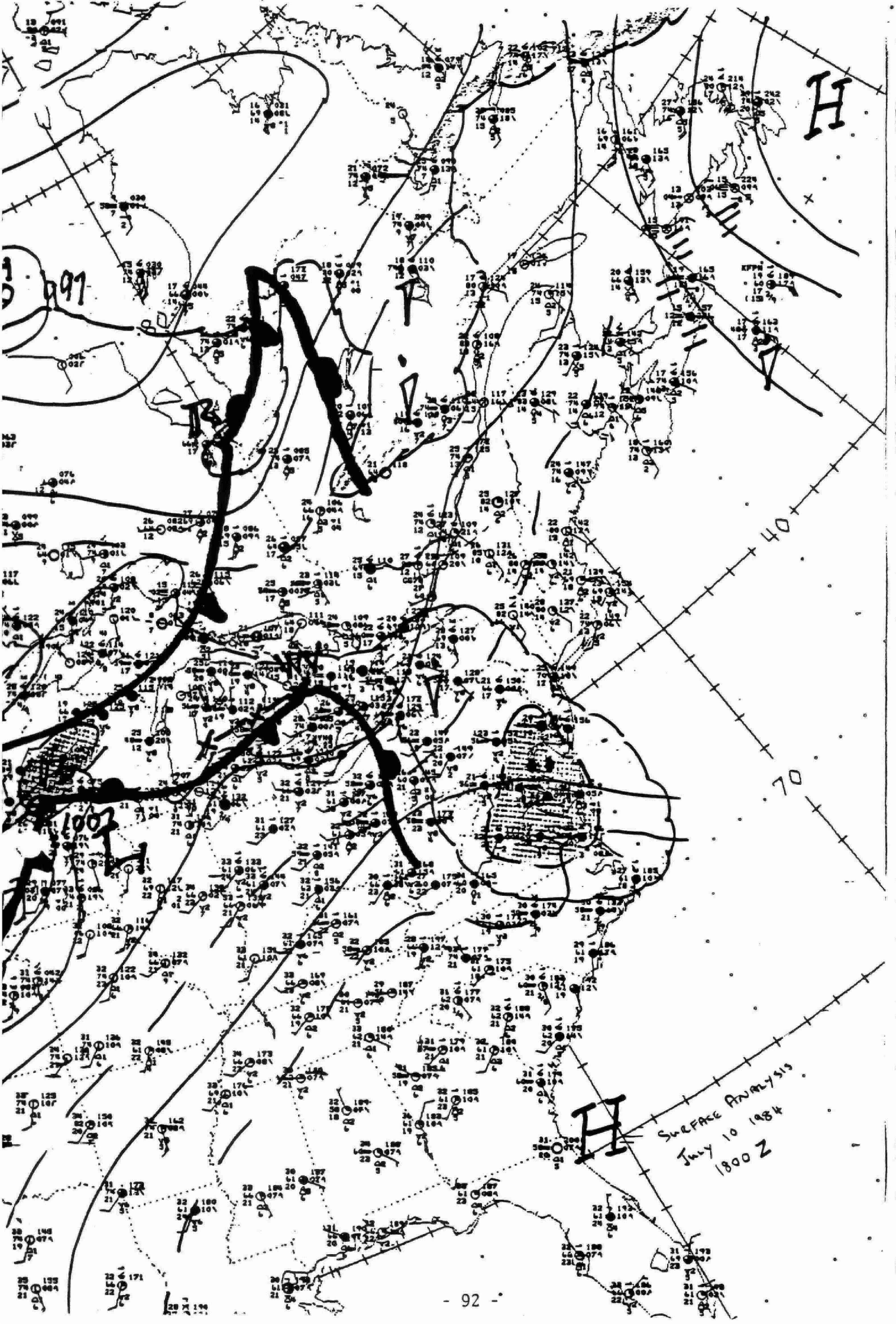

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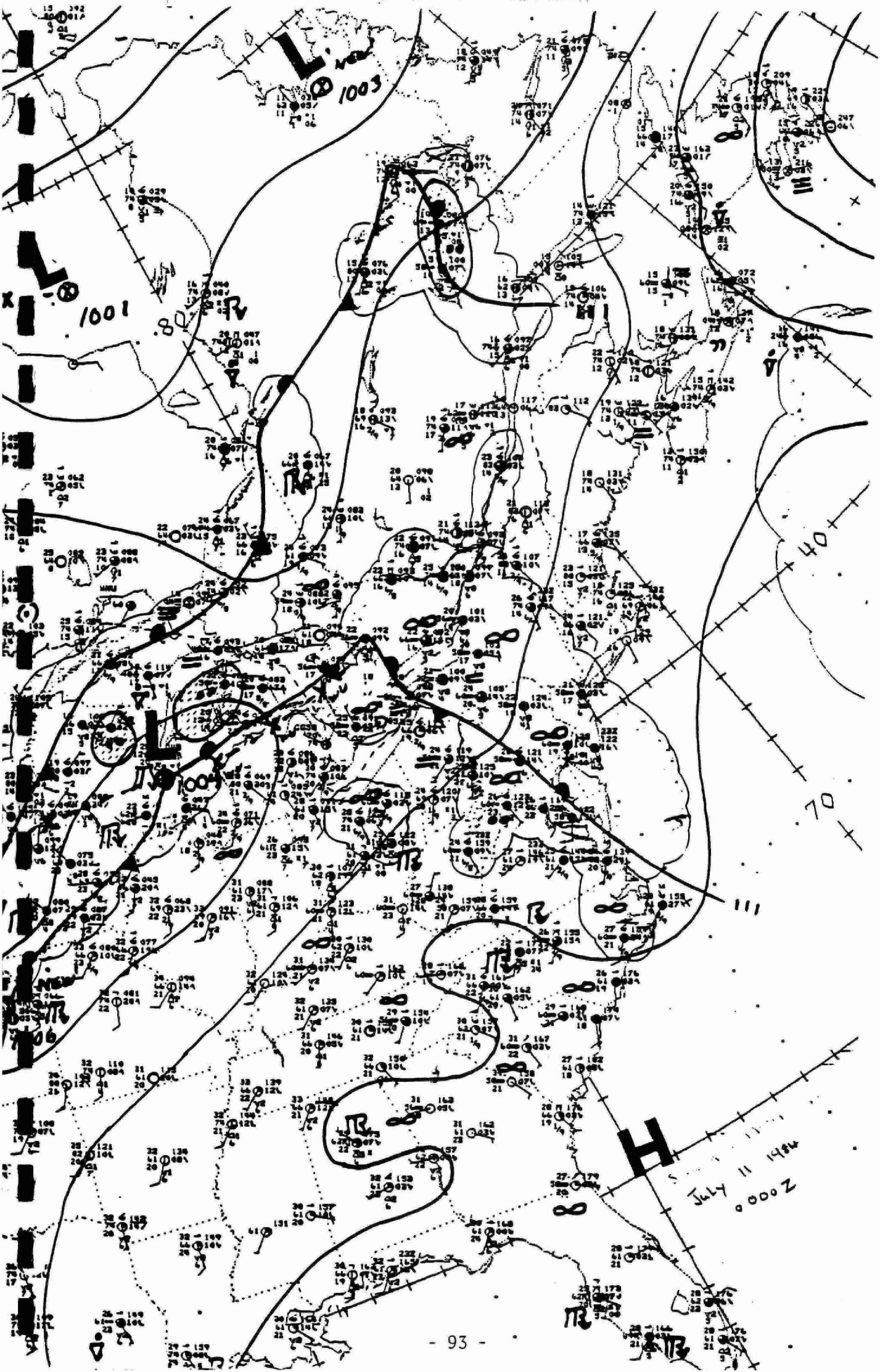

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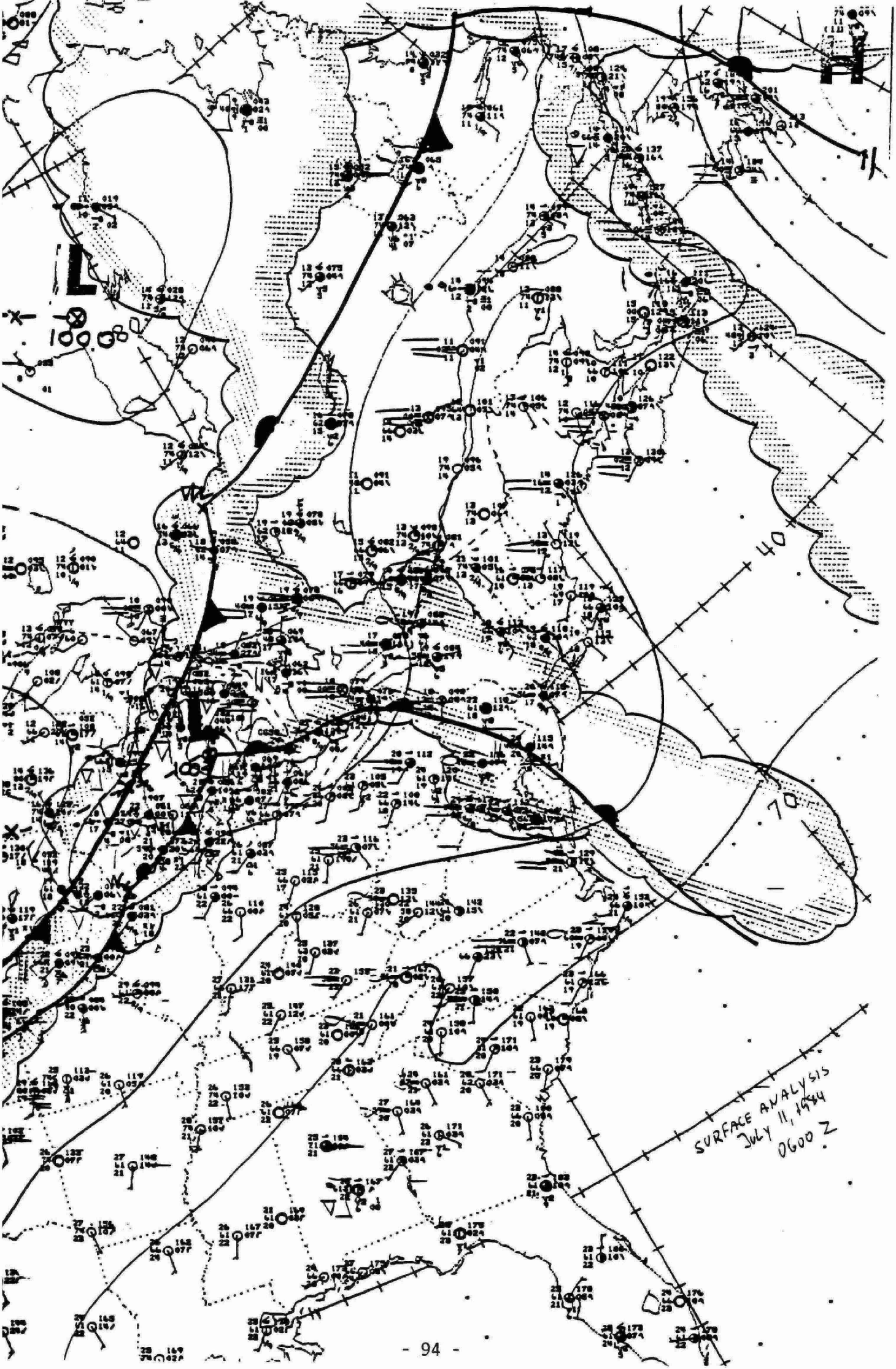

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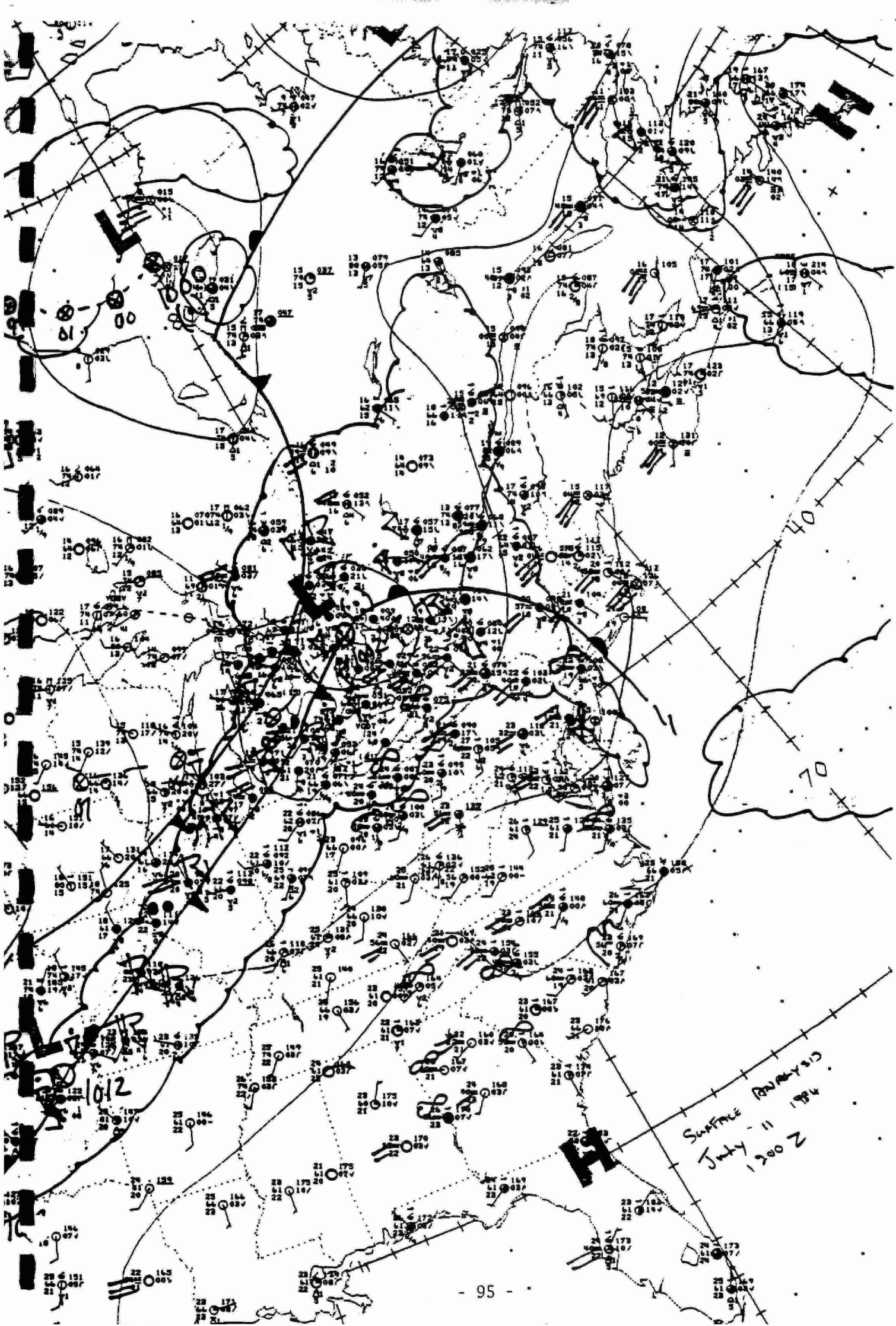

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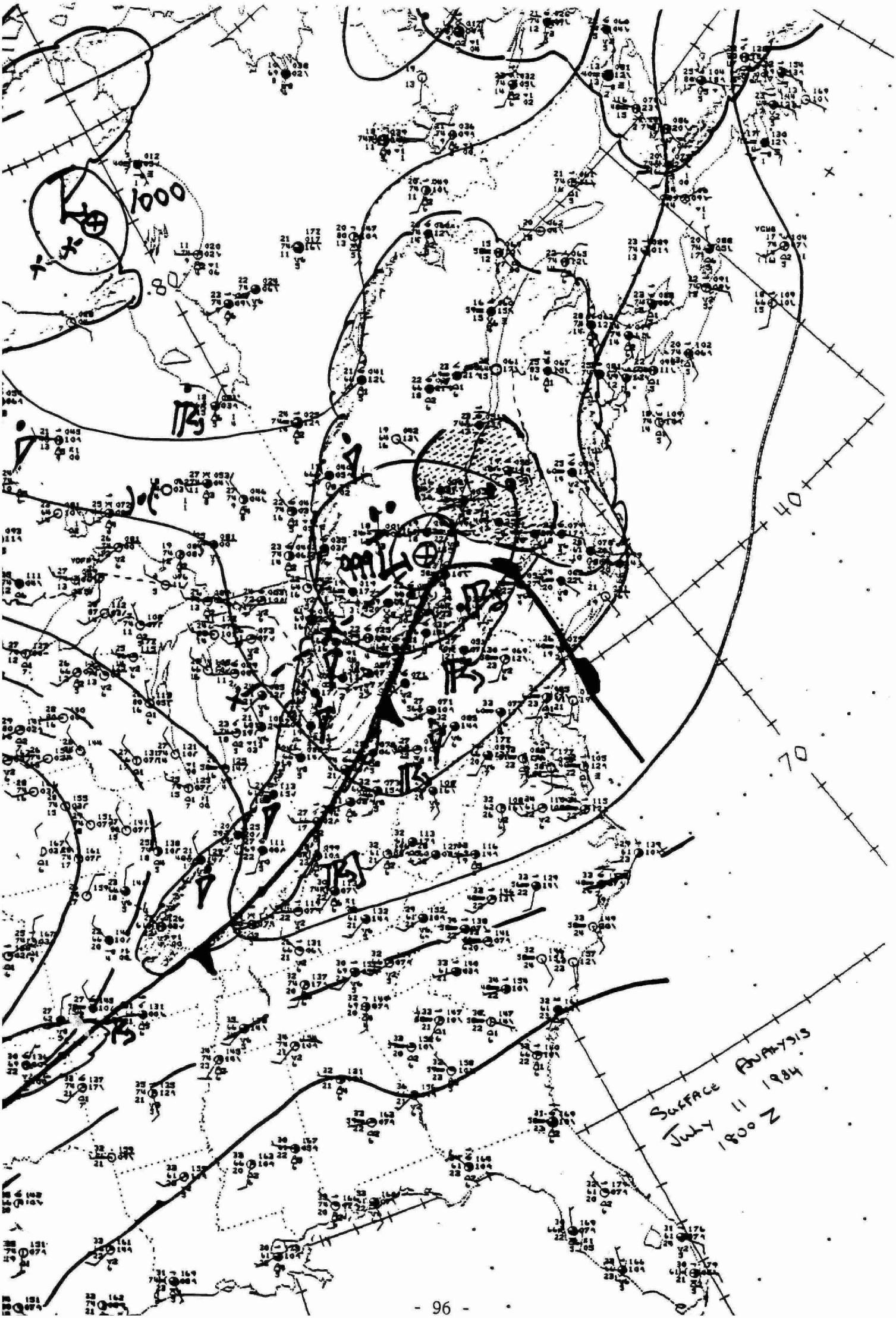

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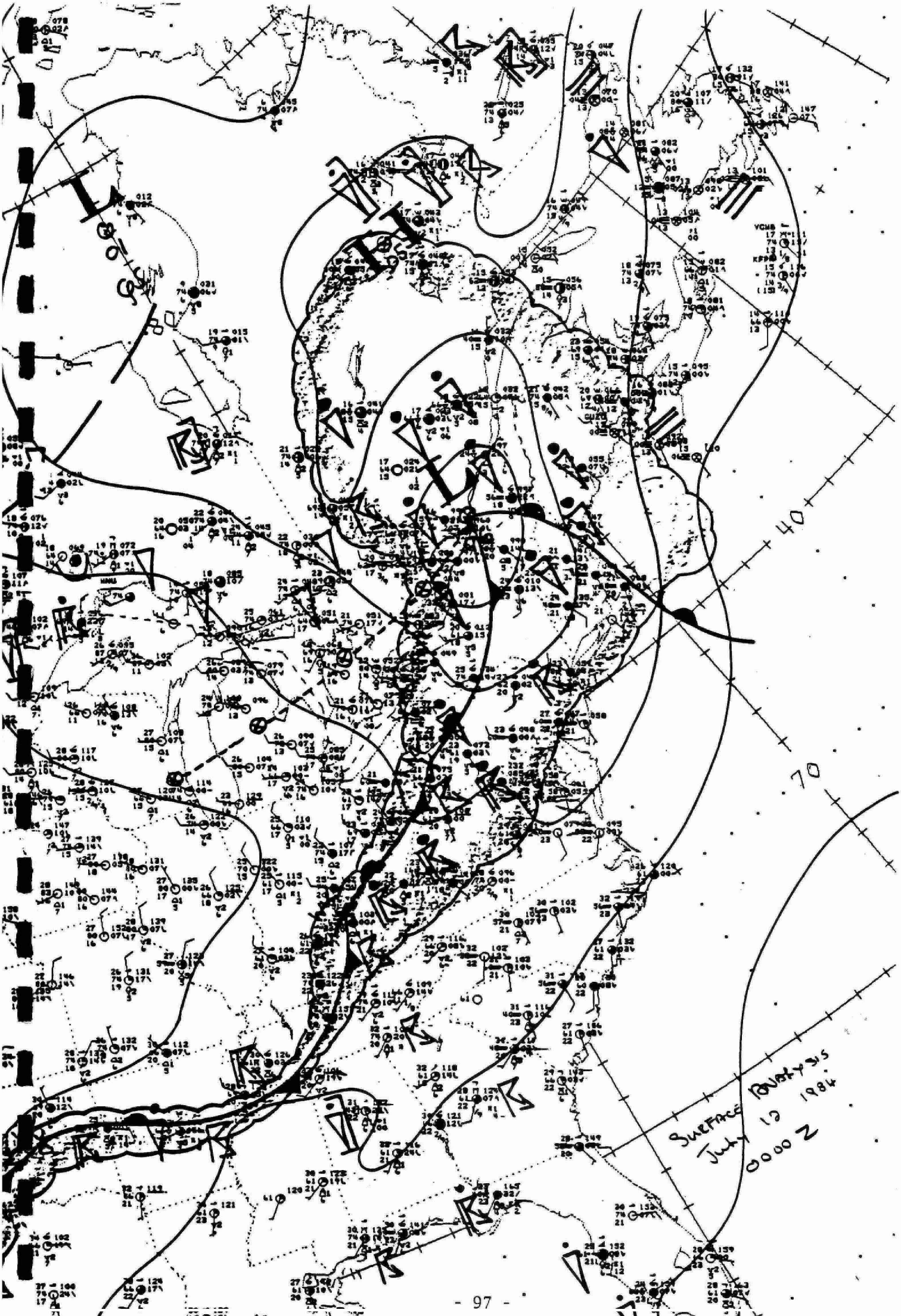

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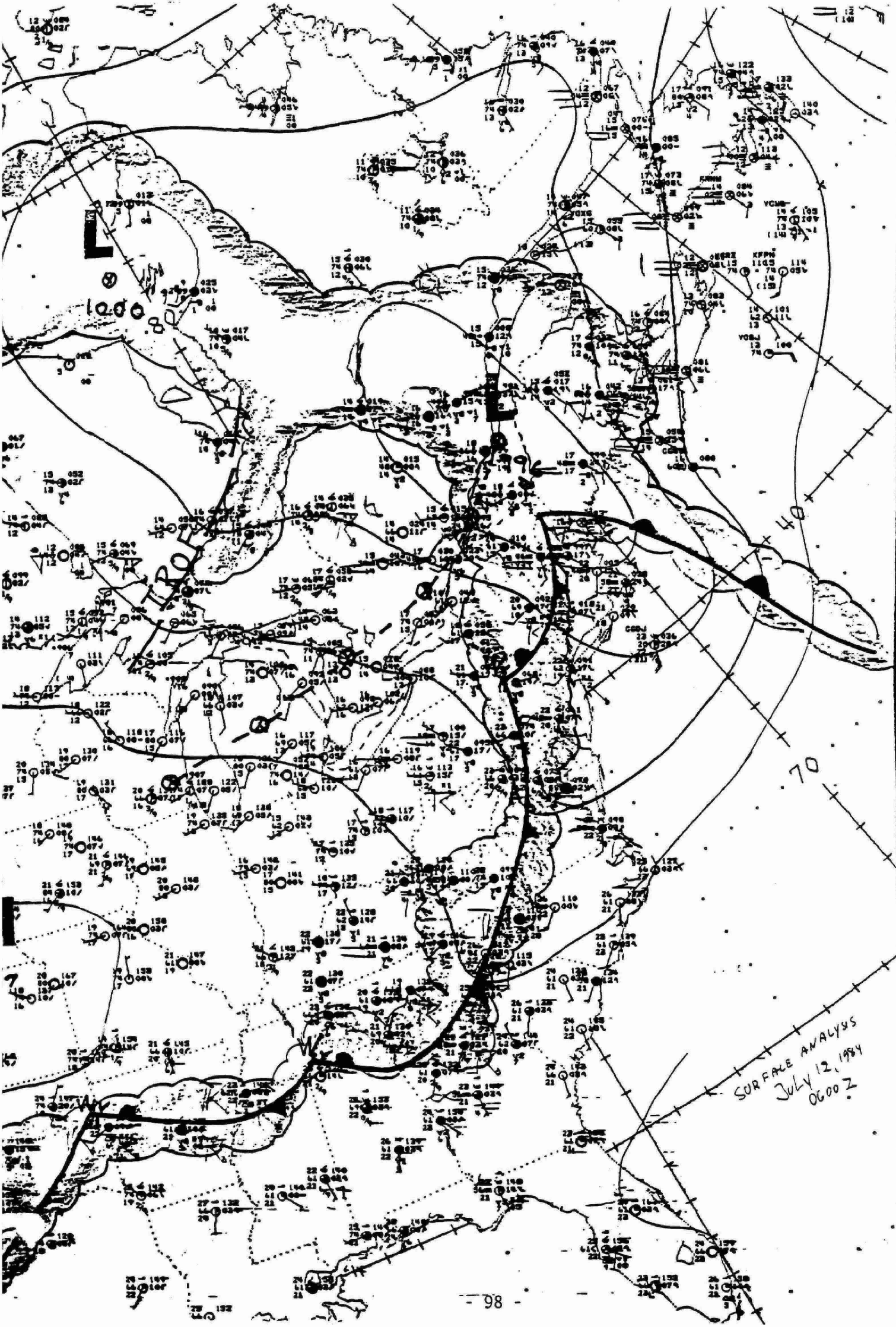

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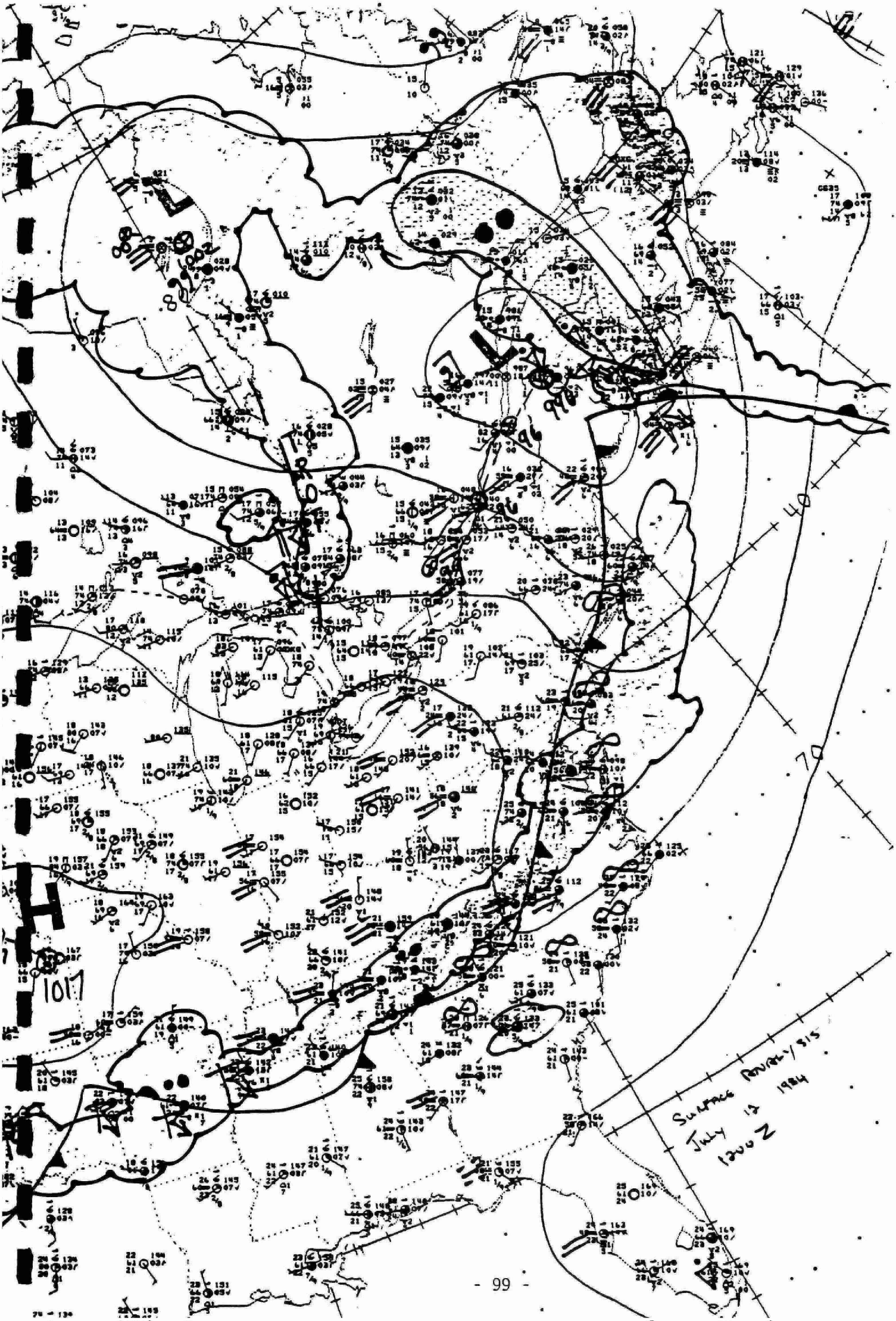

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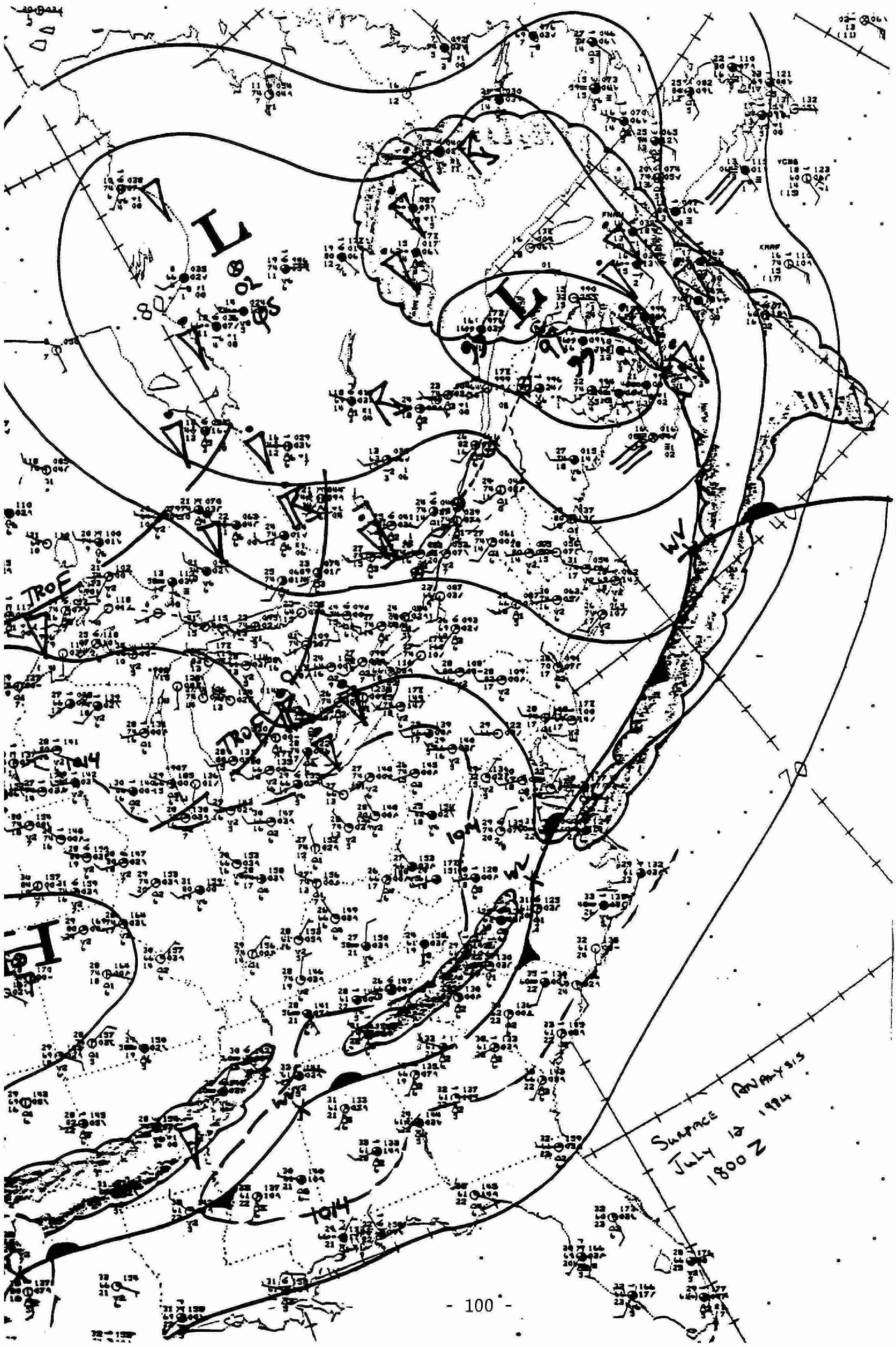

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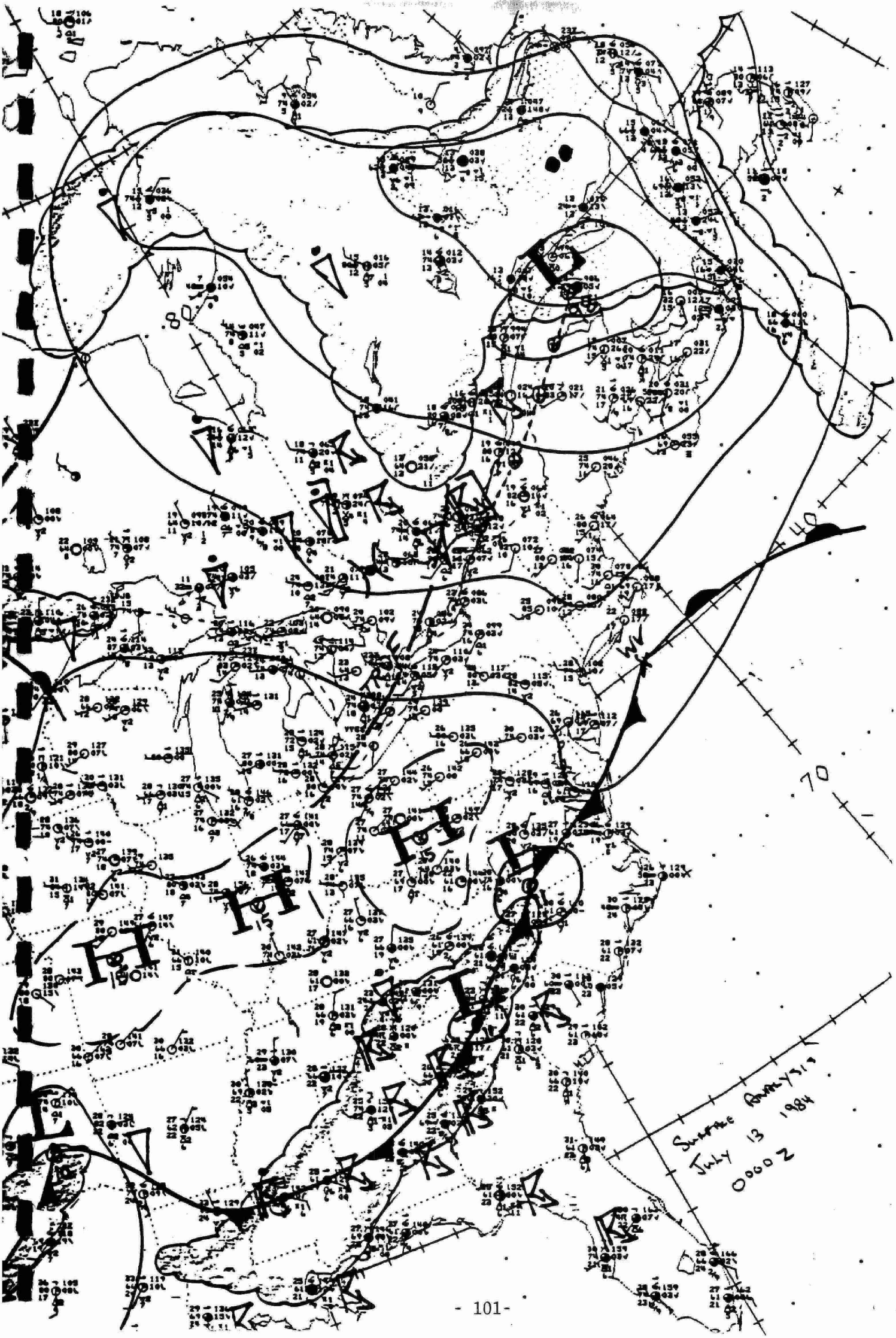

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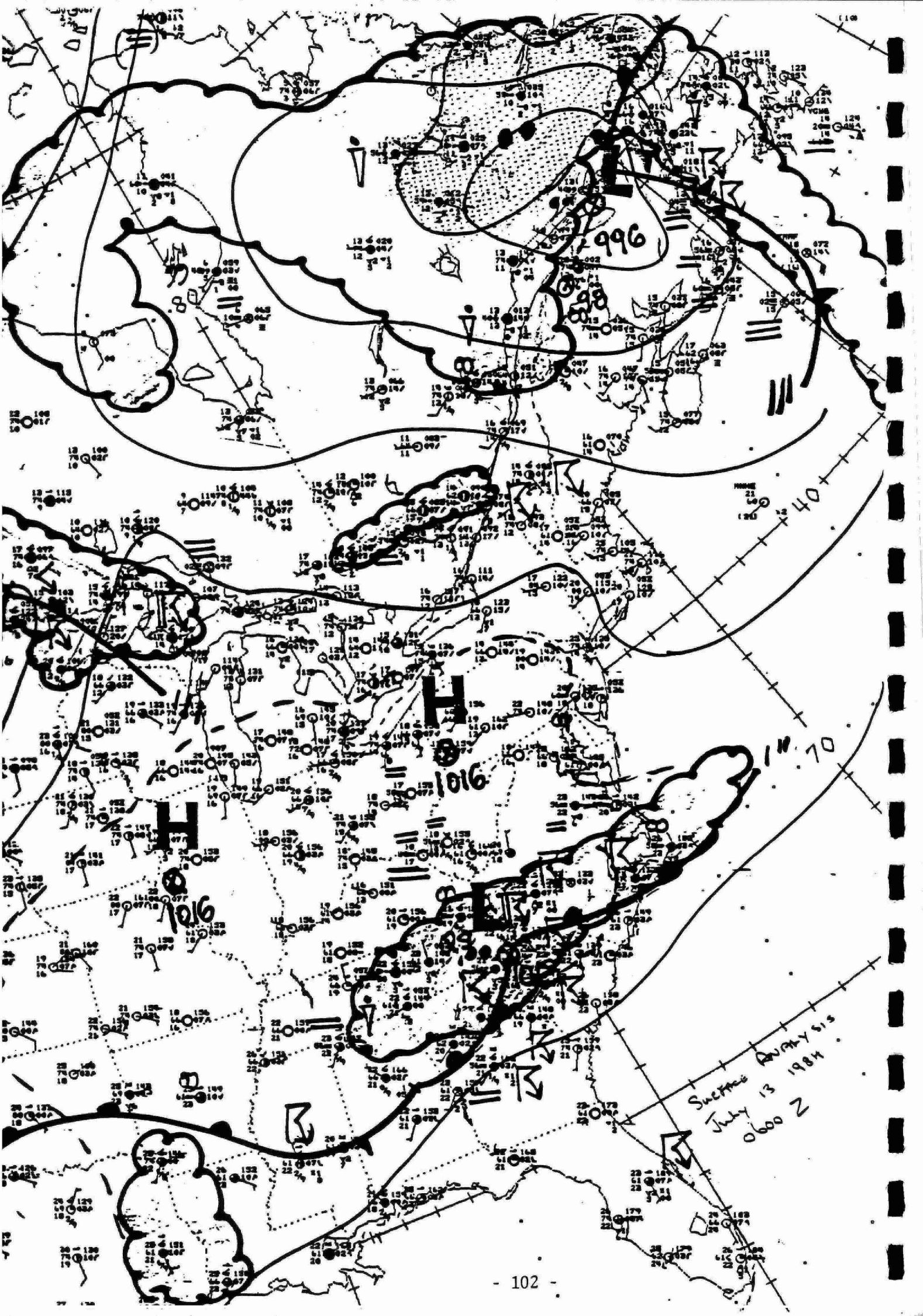

Surface Analysis
July 13 1984
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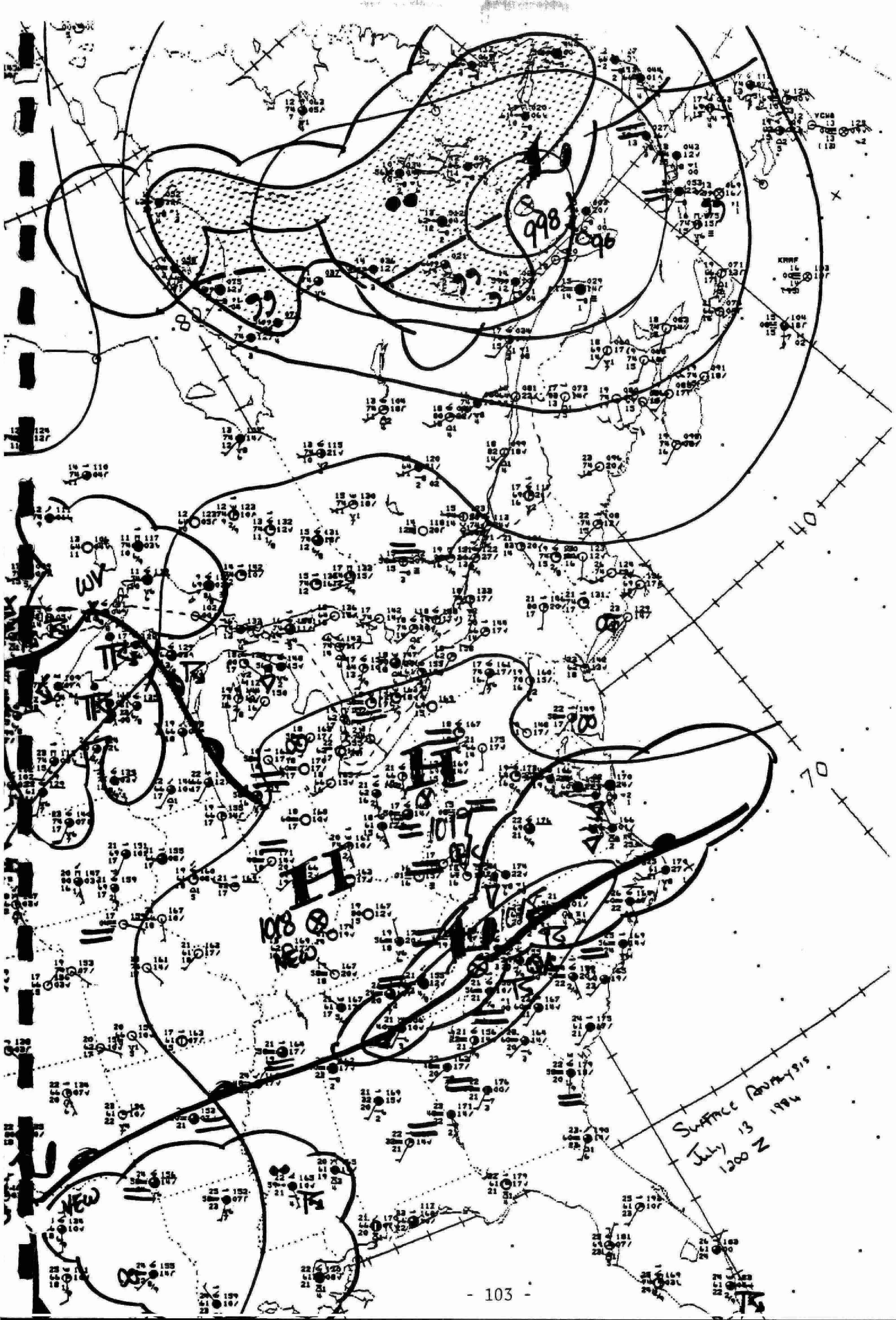

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SURFACE ANALYSIS
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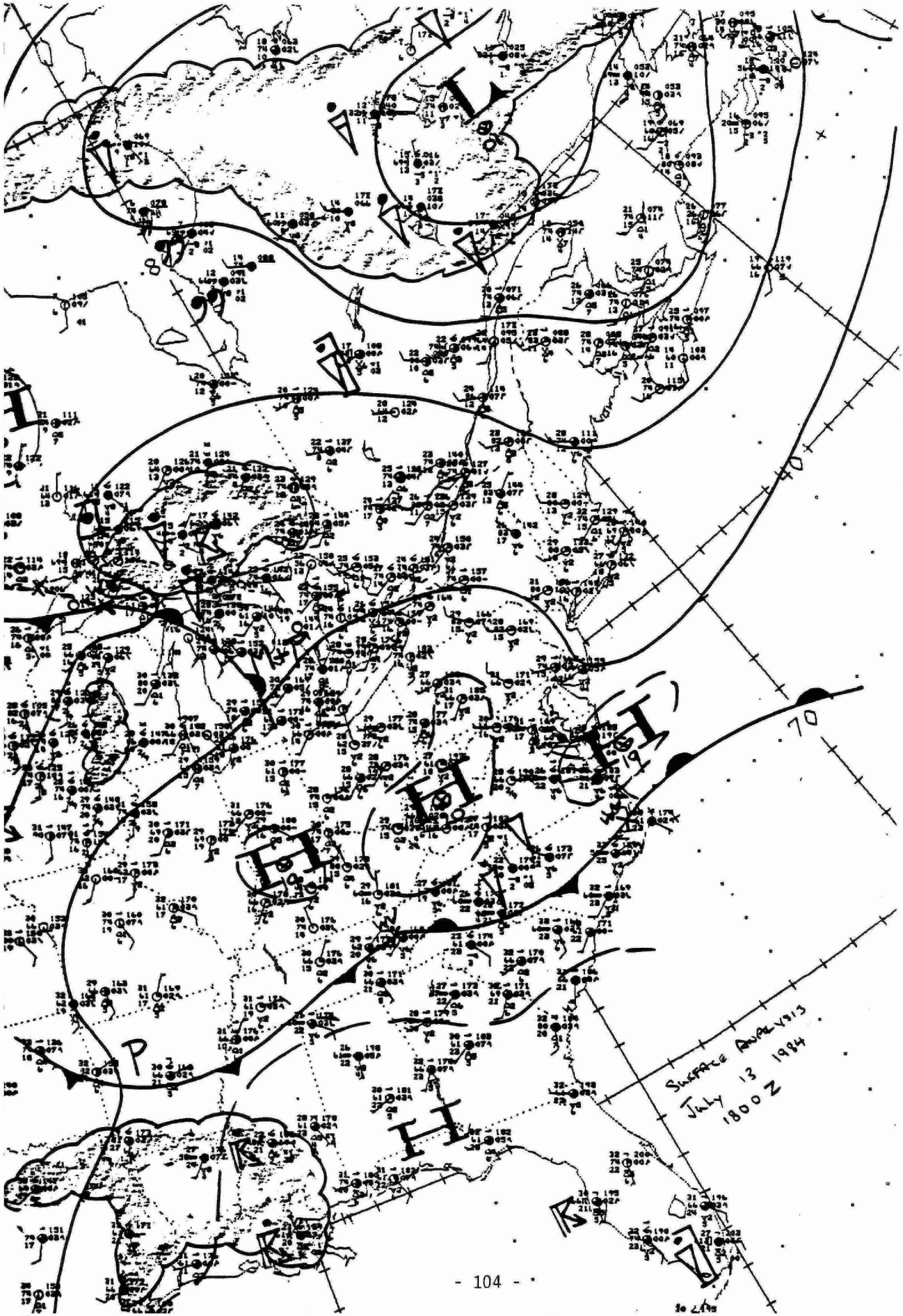

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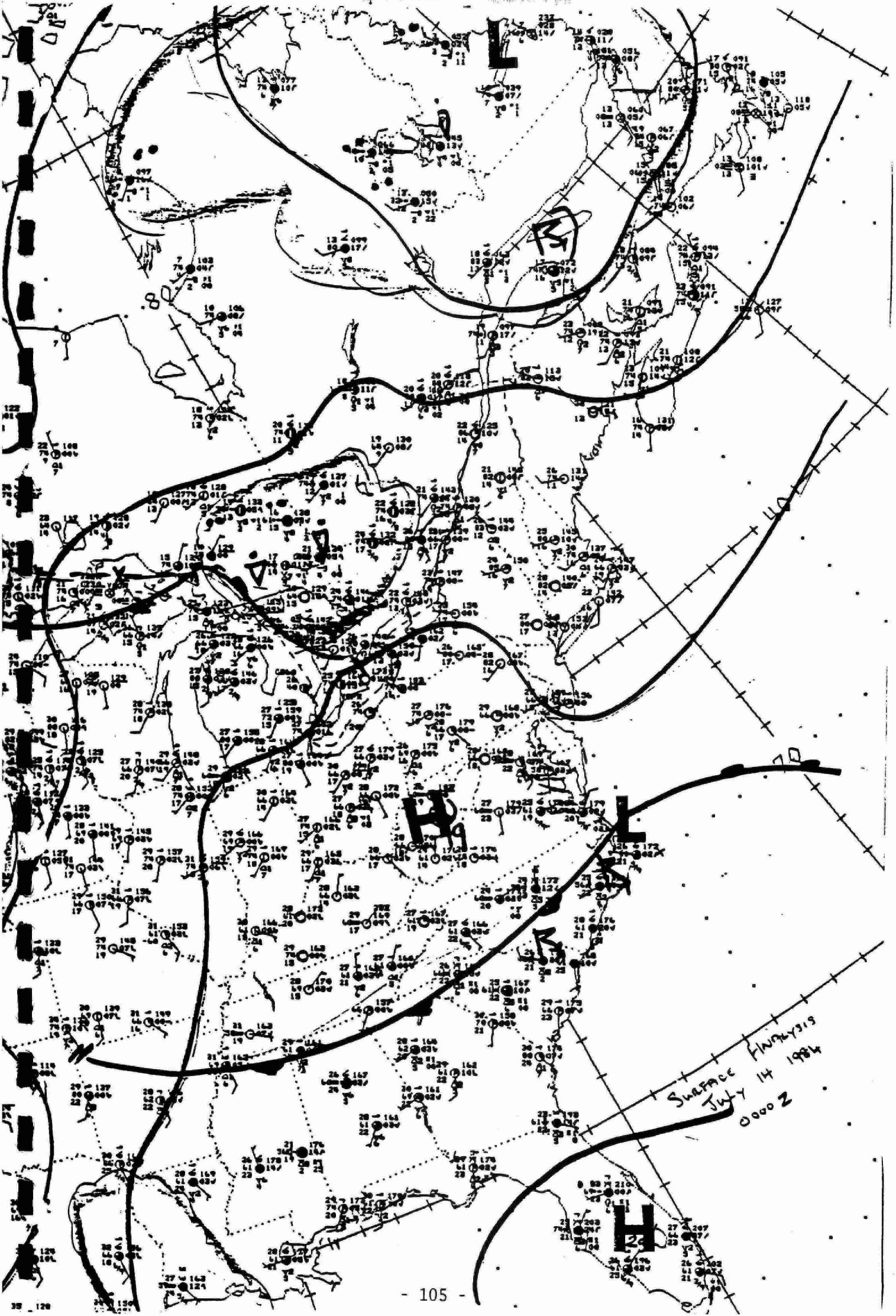

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Surface Analysis
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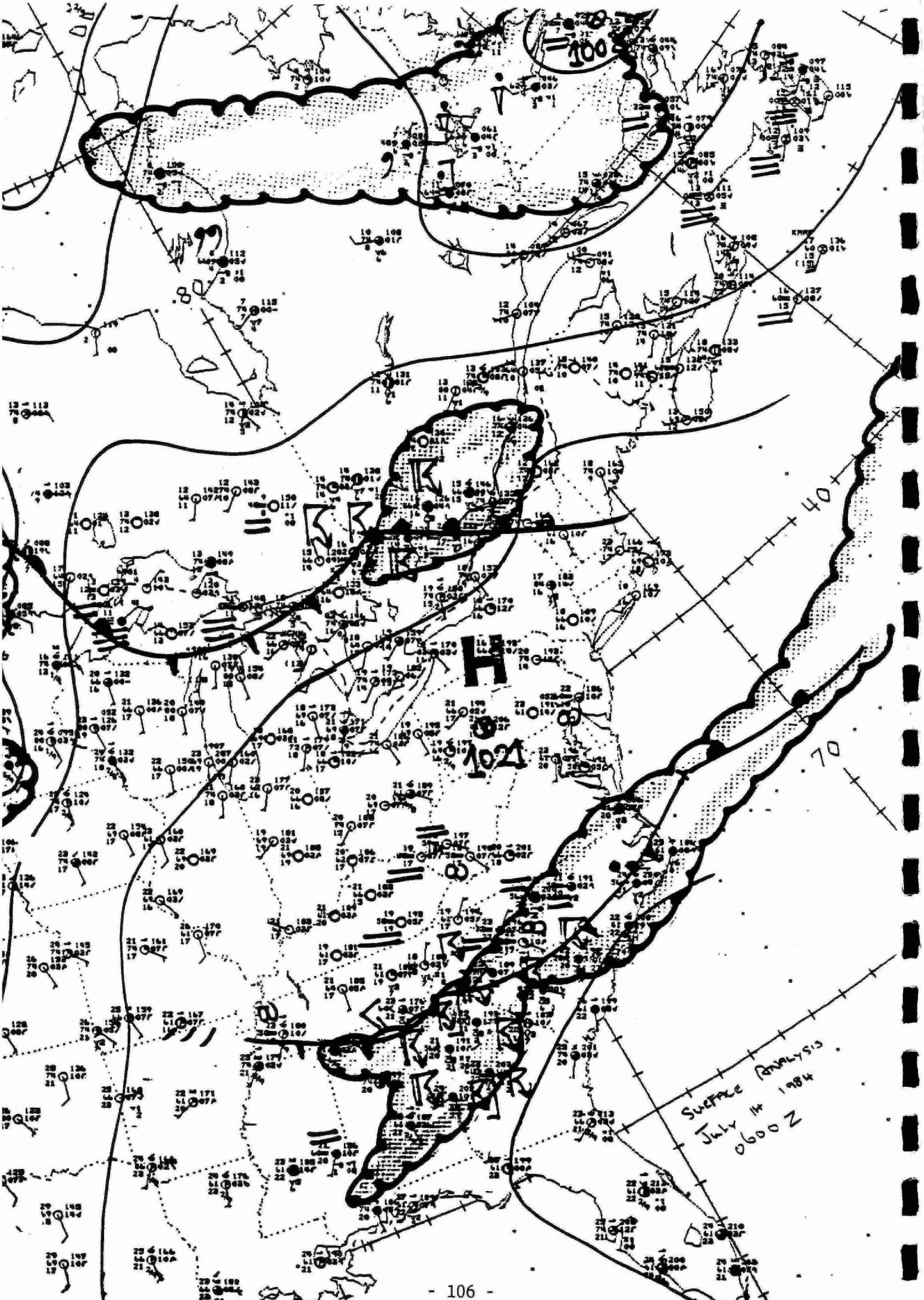

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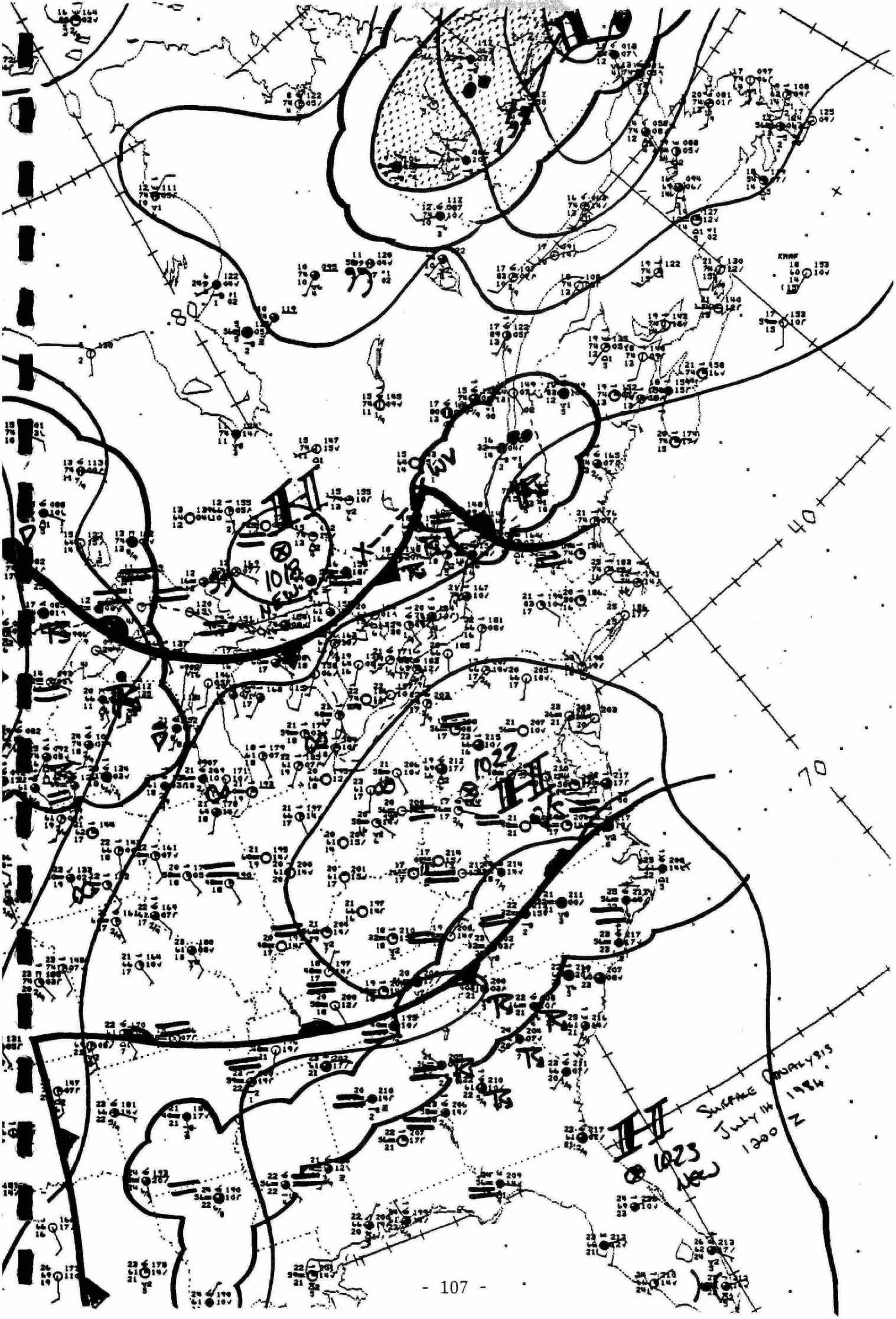

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Surface Analysis
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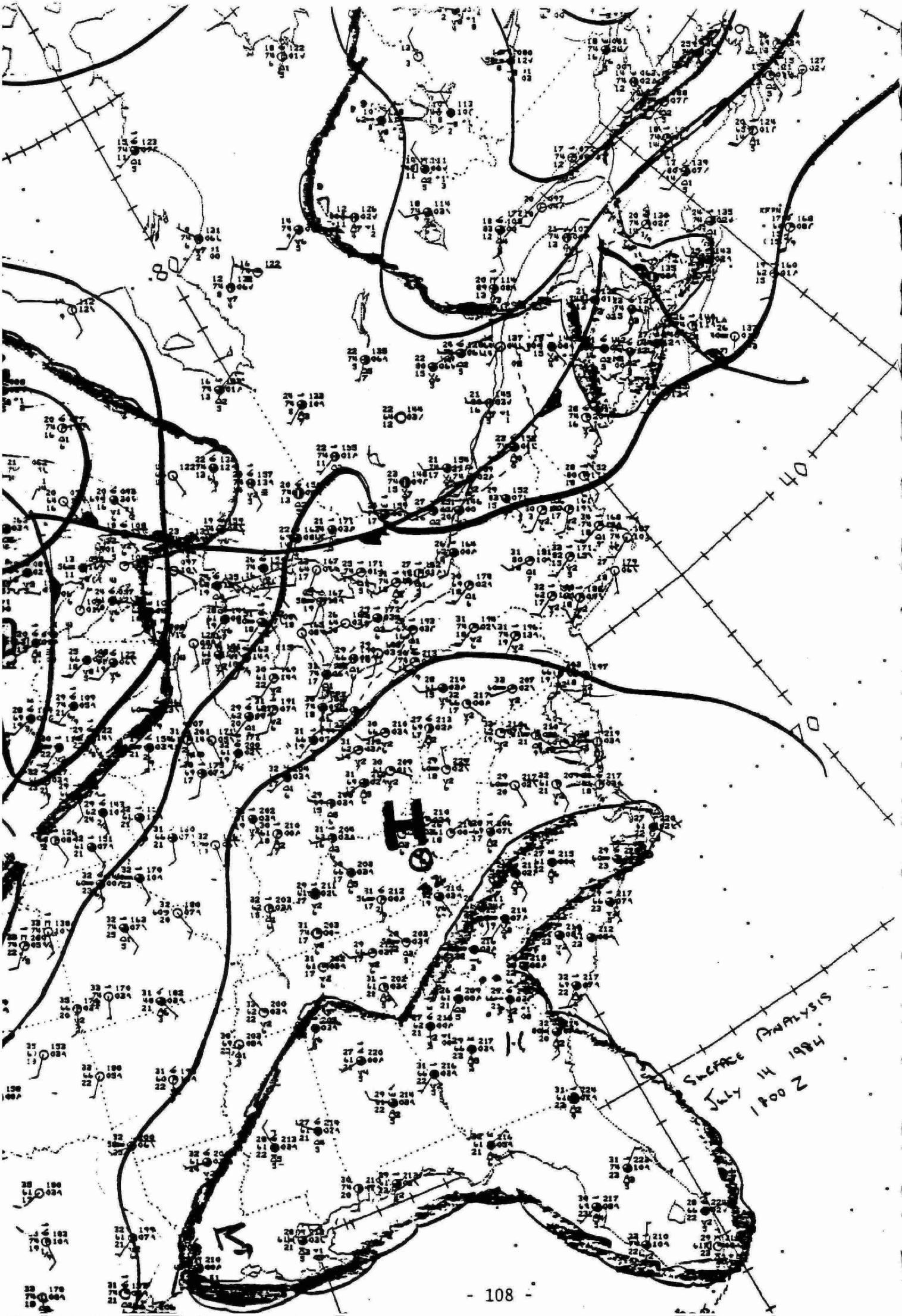

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Surface Analysis
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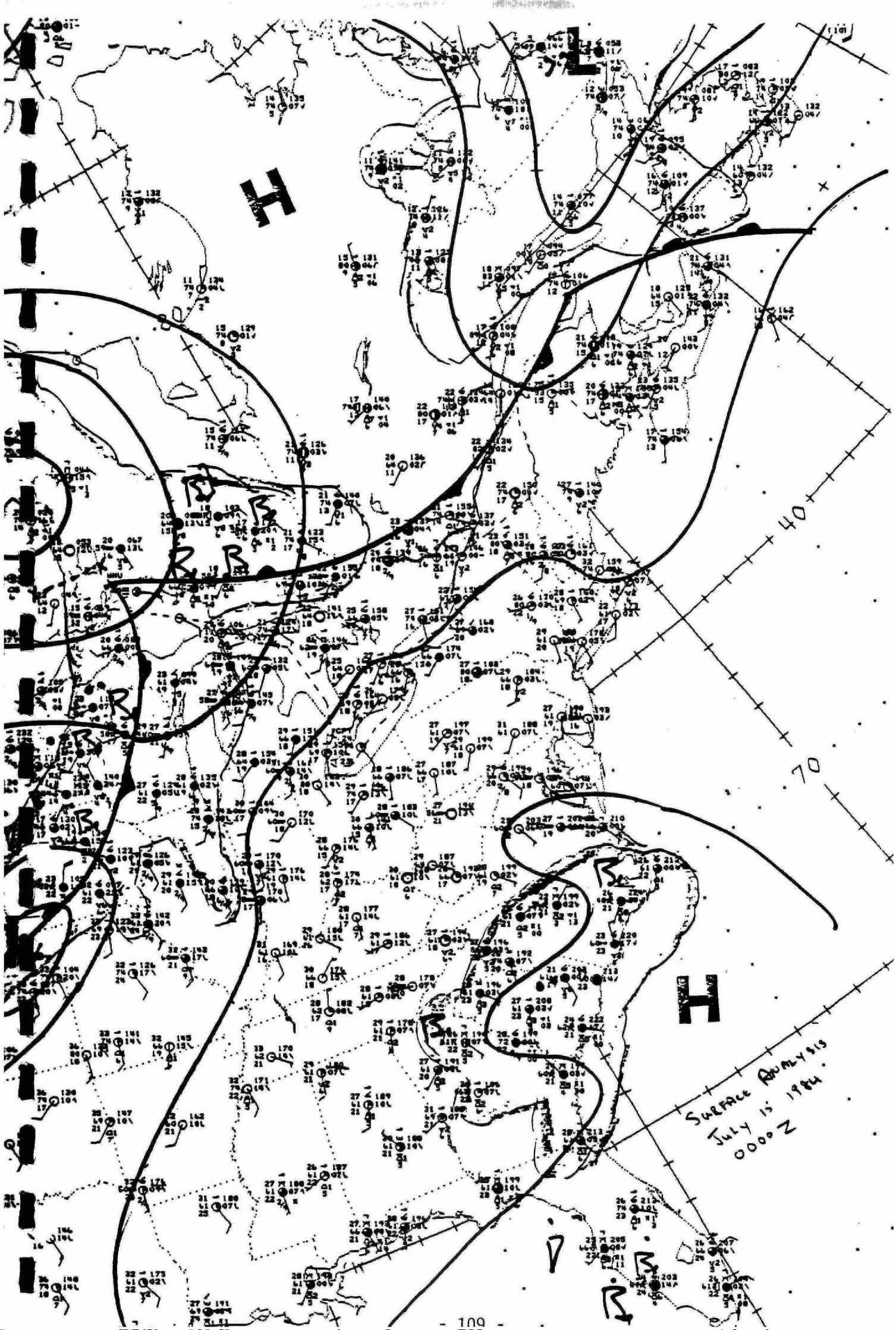

SURFACE ANAL V313
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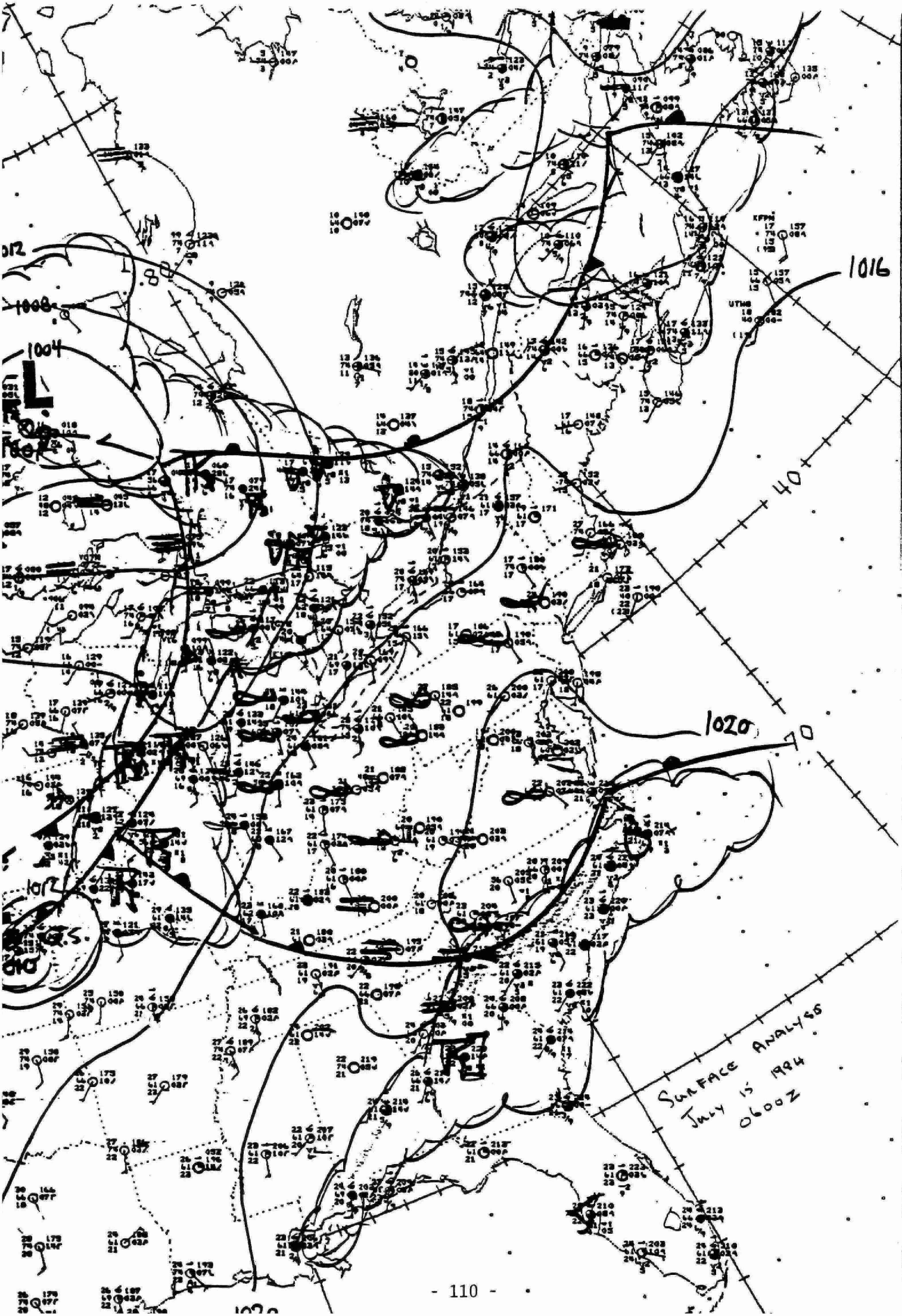

L
H
L
H
H
Surface Analysis
July 14 1984
0000 Z

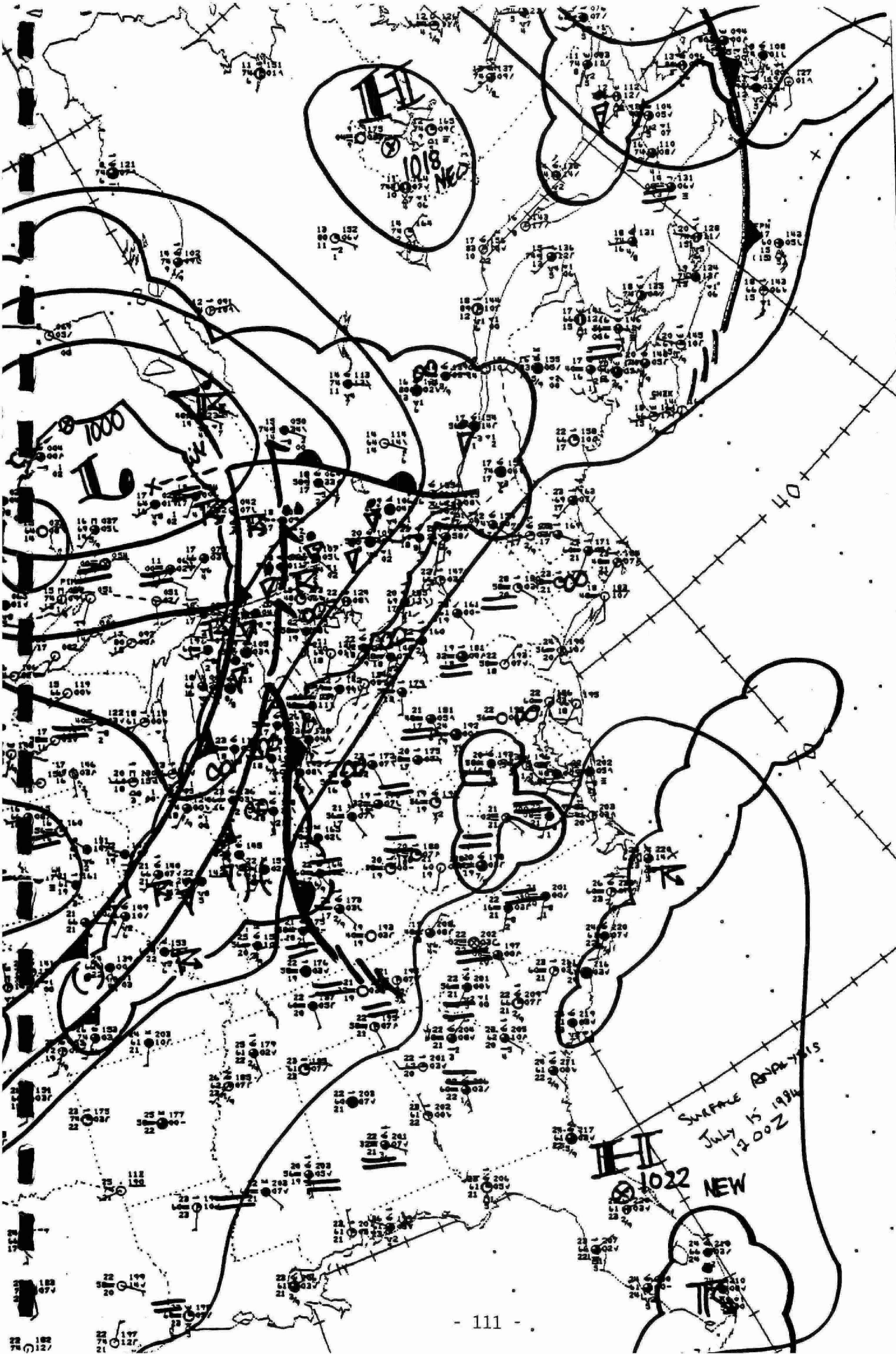

H
1021
100
80
40
70
SURFACE ANALYSIS
JULY 14 1984
0600Z

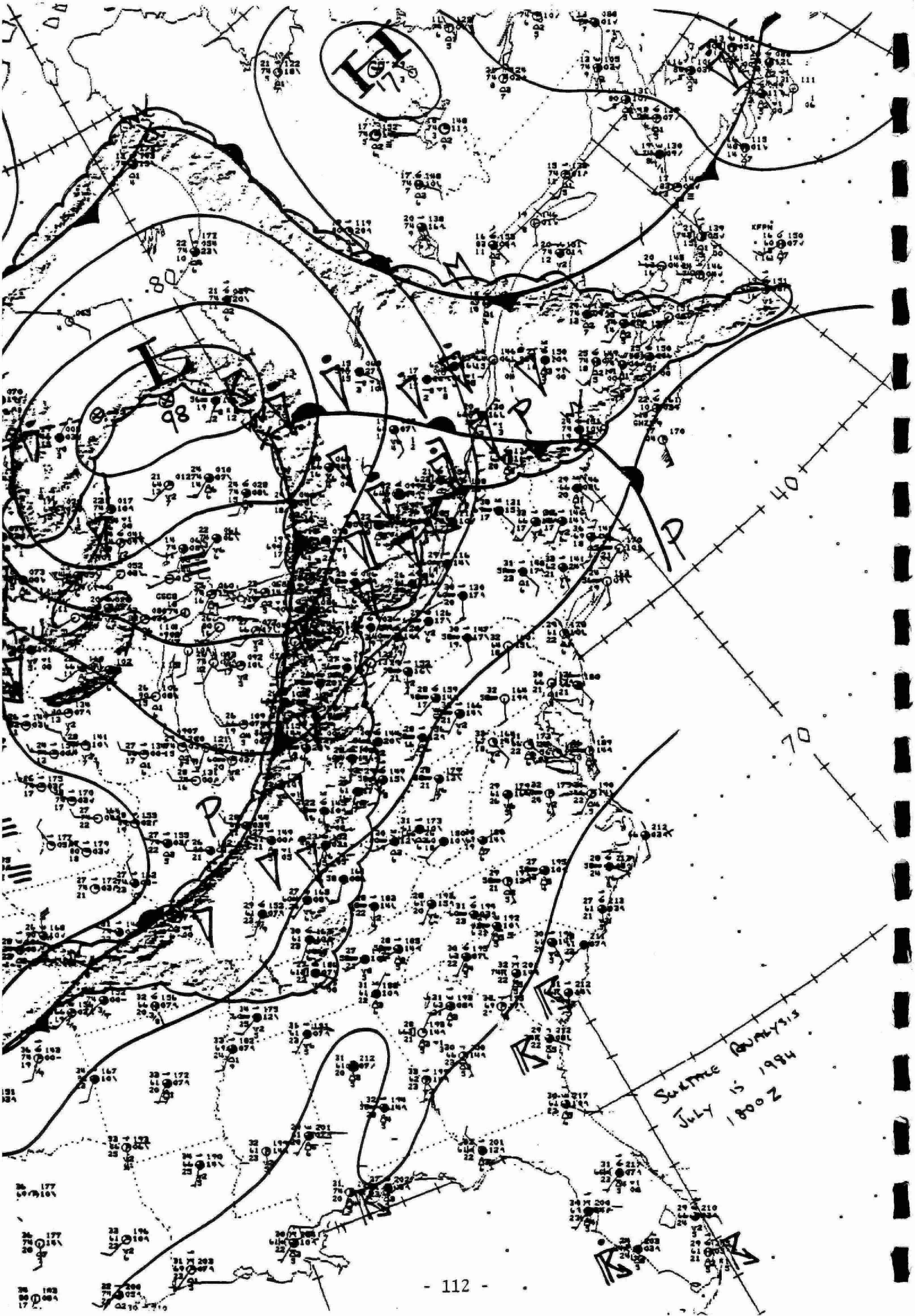

1018
1022
1023
SURFACE ANALYSIS
JULY 14 1984
1200 N

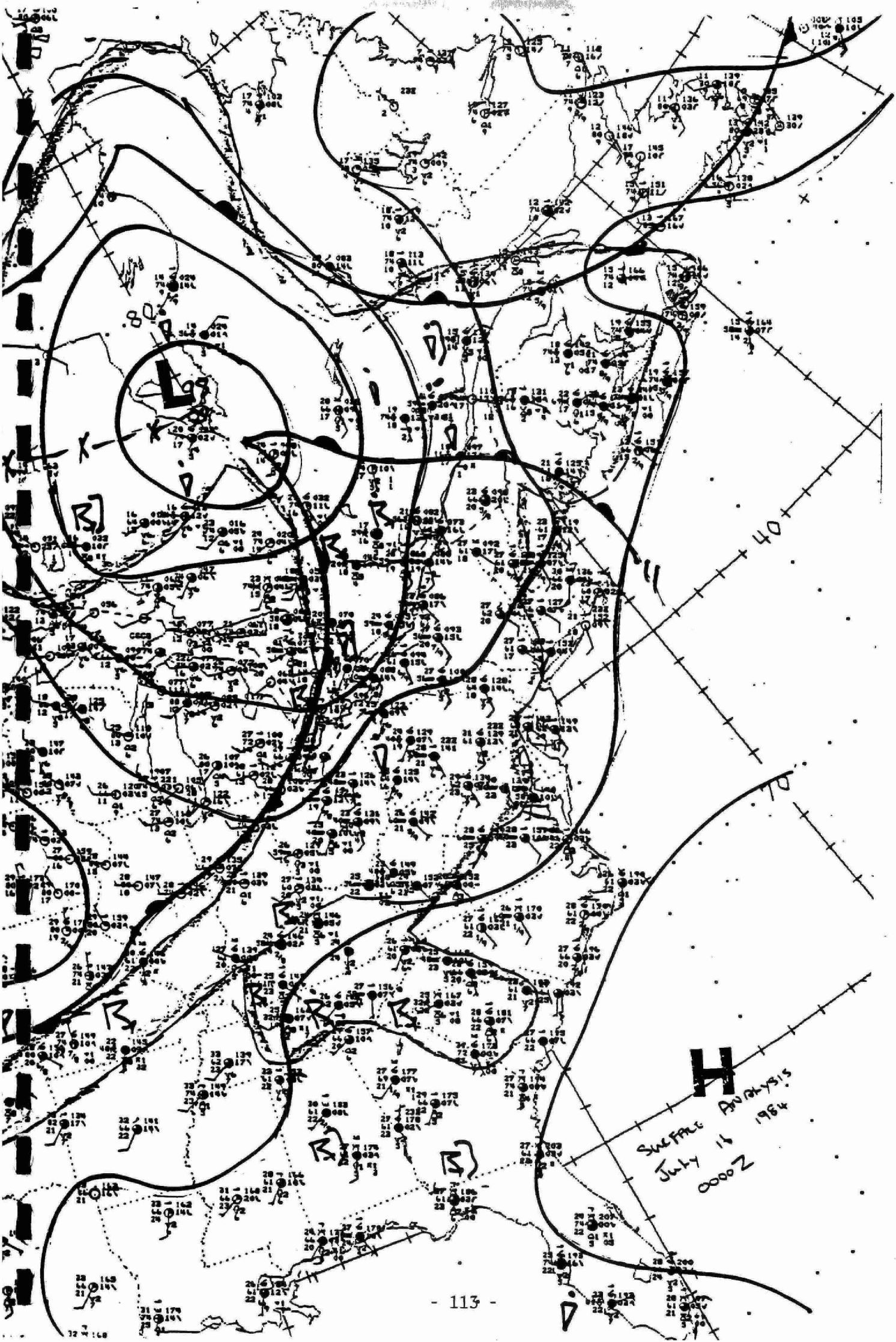

SURFACE ANALYSIS
JULY 14 1984
1800 Z

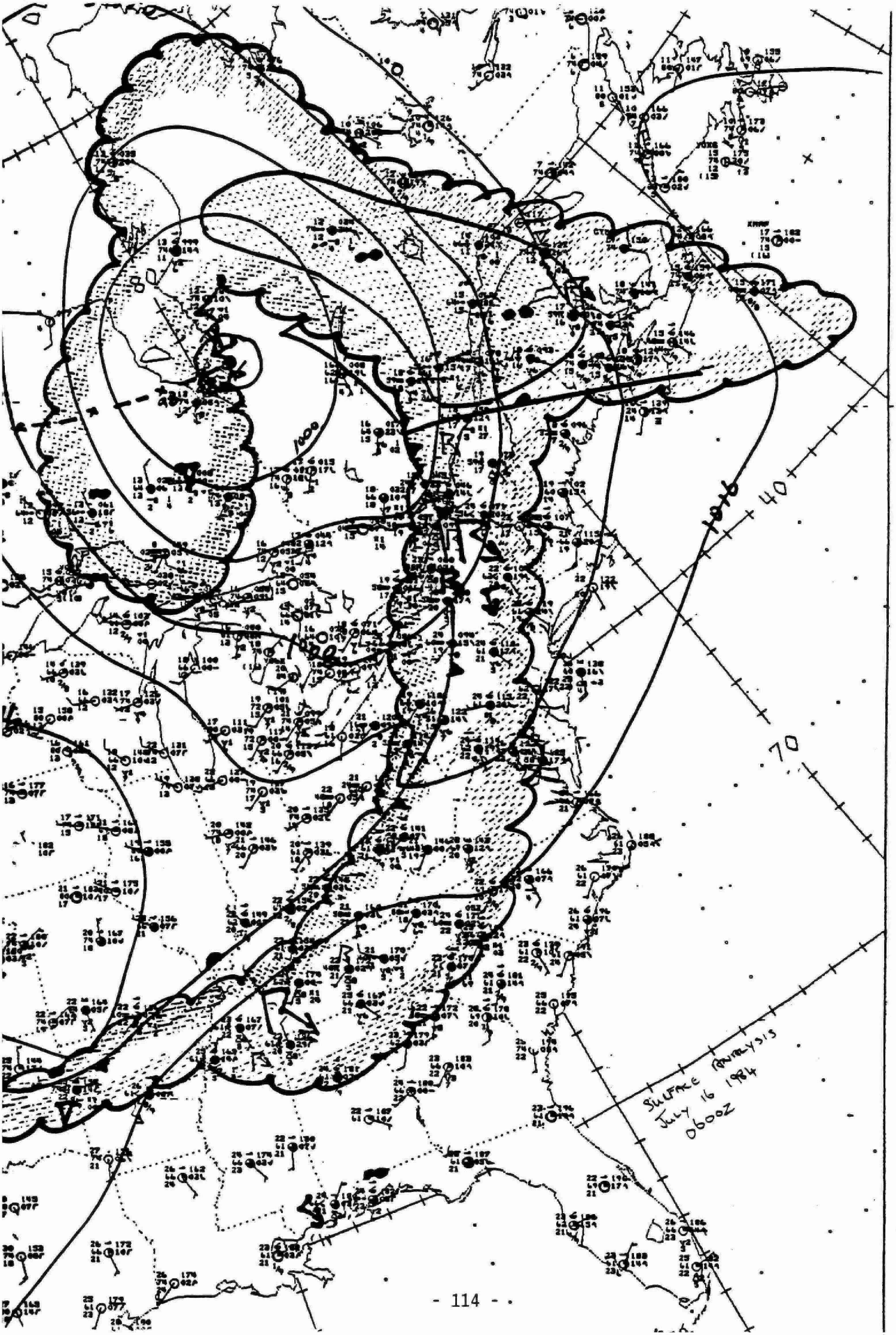

H
H
40
70
SURFACE ANALYSIS
JULY 15 1984
0000 Z

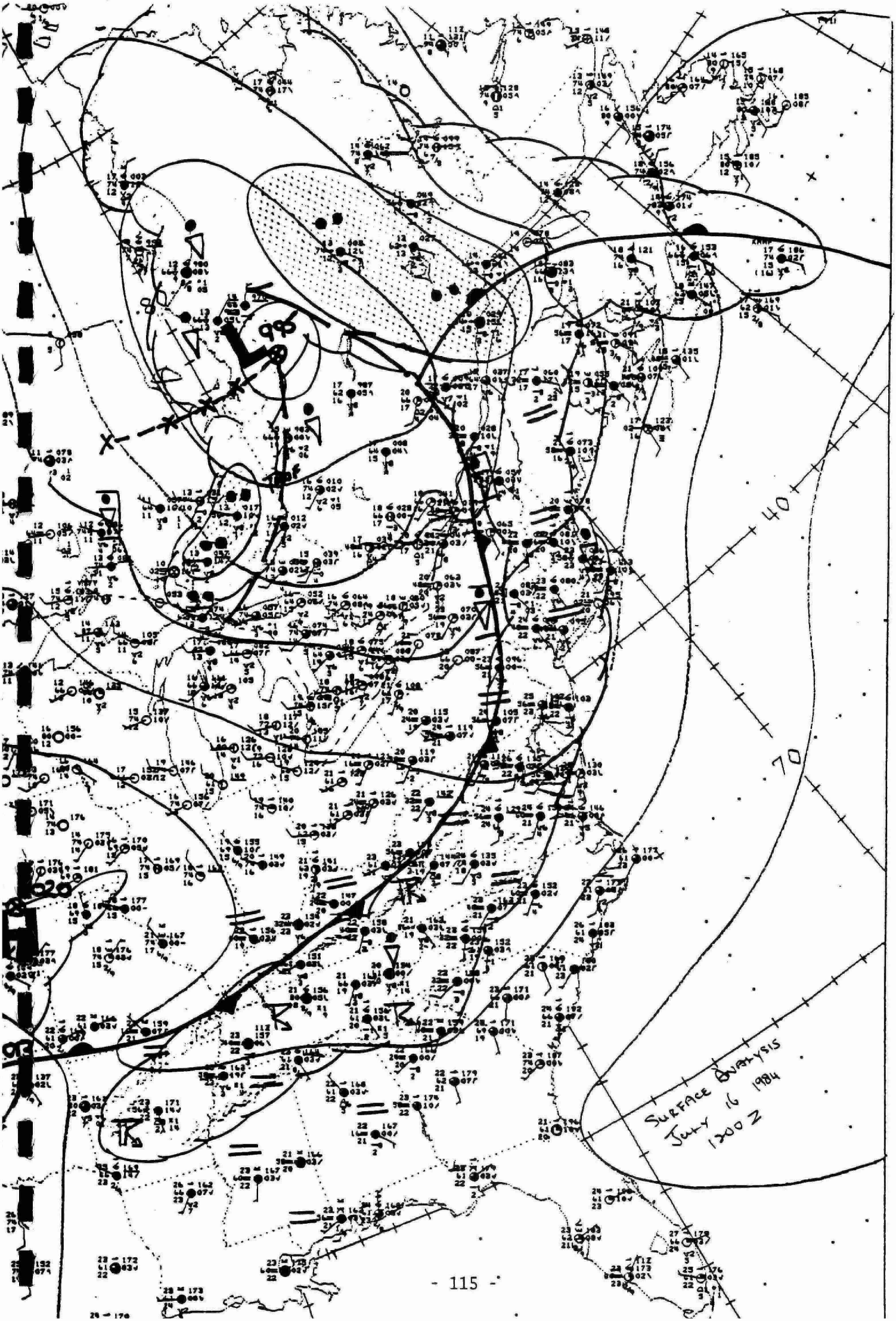

1016
1004
1020
40
70
SURFACE ANALYSIS
JULY 15 1994
0600Z

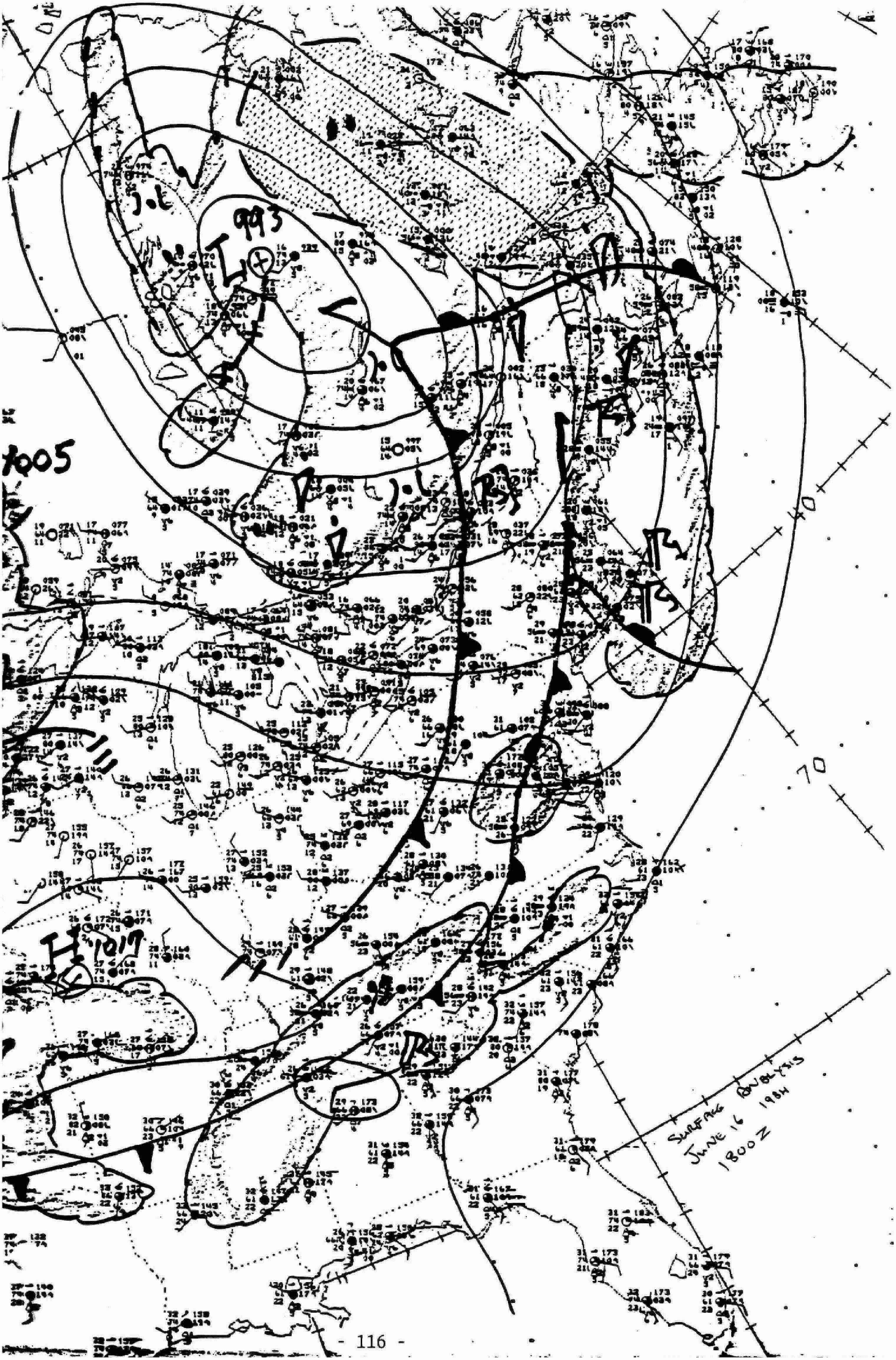

1018 NEW
1000
1022 NEW
40
SURFACE ANALYSIS
JULY 15 1984
1200Z

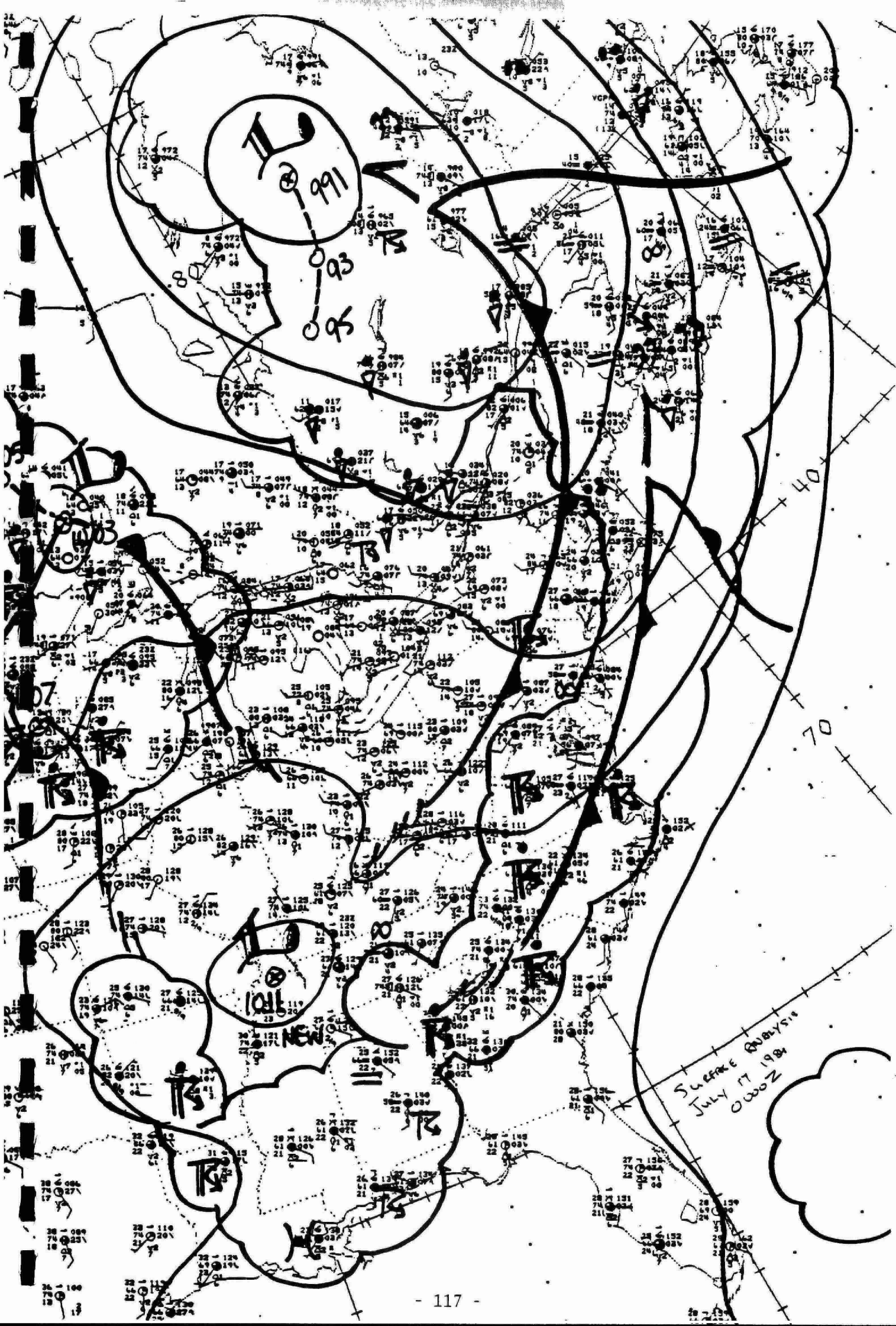

H
L
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P
80
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SURFACE ANALYSIS
JULY 15 1994
1800Z

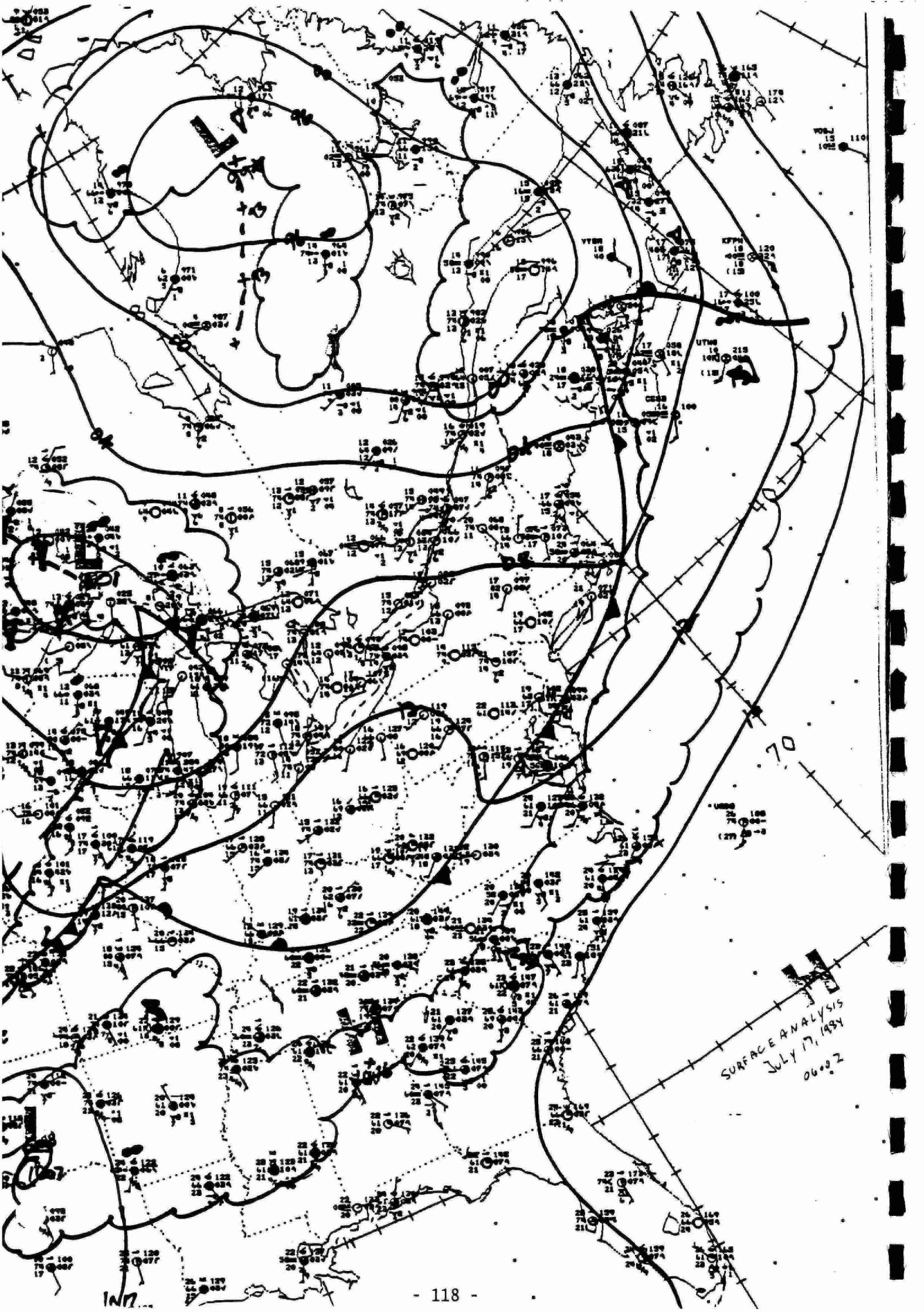

L
H
40
70
Surface Analysis
July 15 1984
0000Z

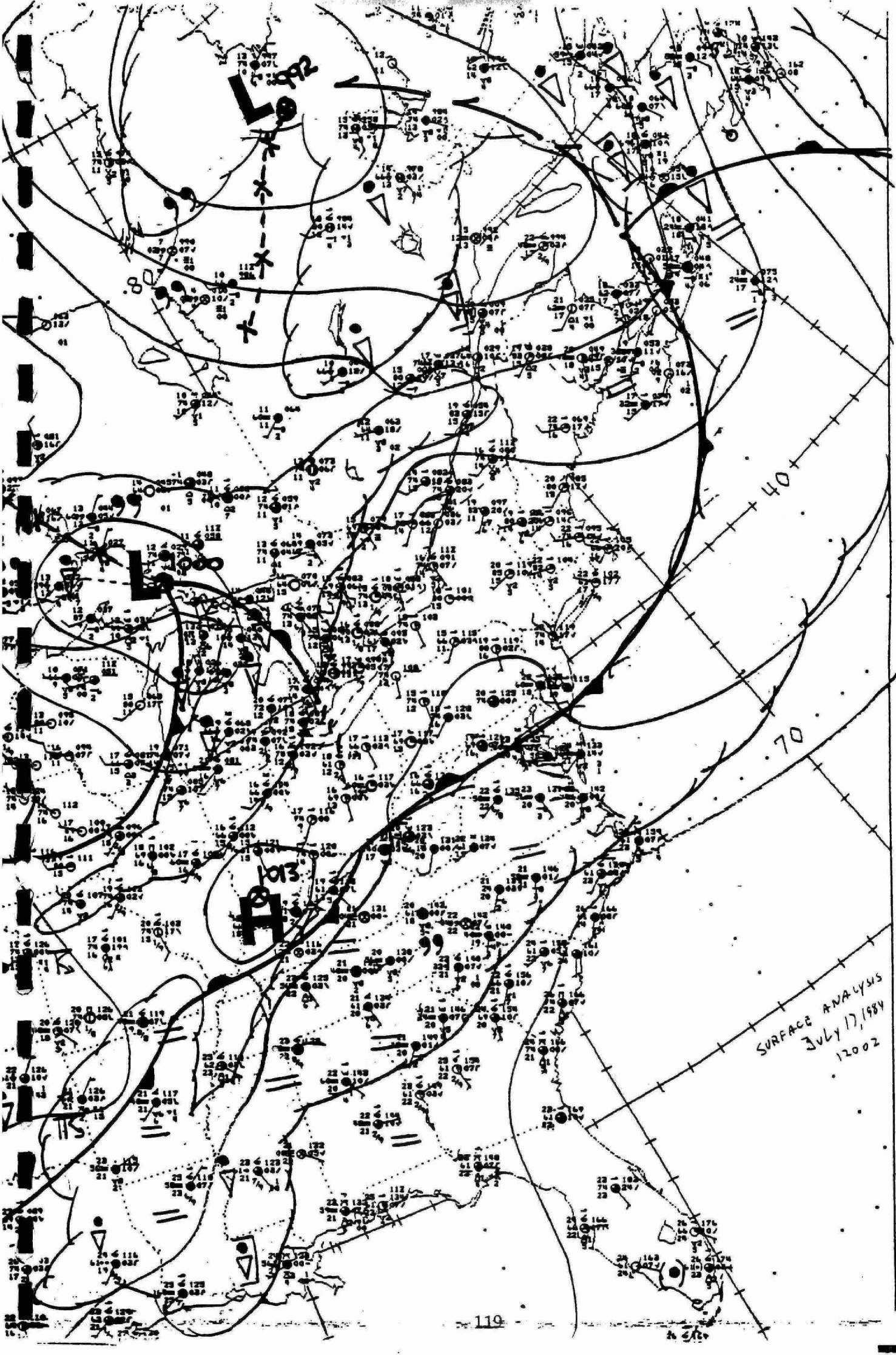

40
70
SURFACE ANALYSIS
JULY 16 1984
0600Z

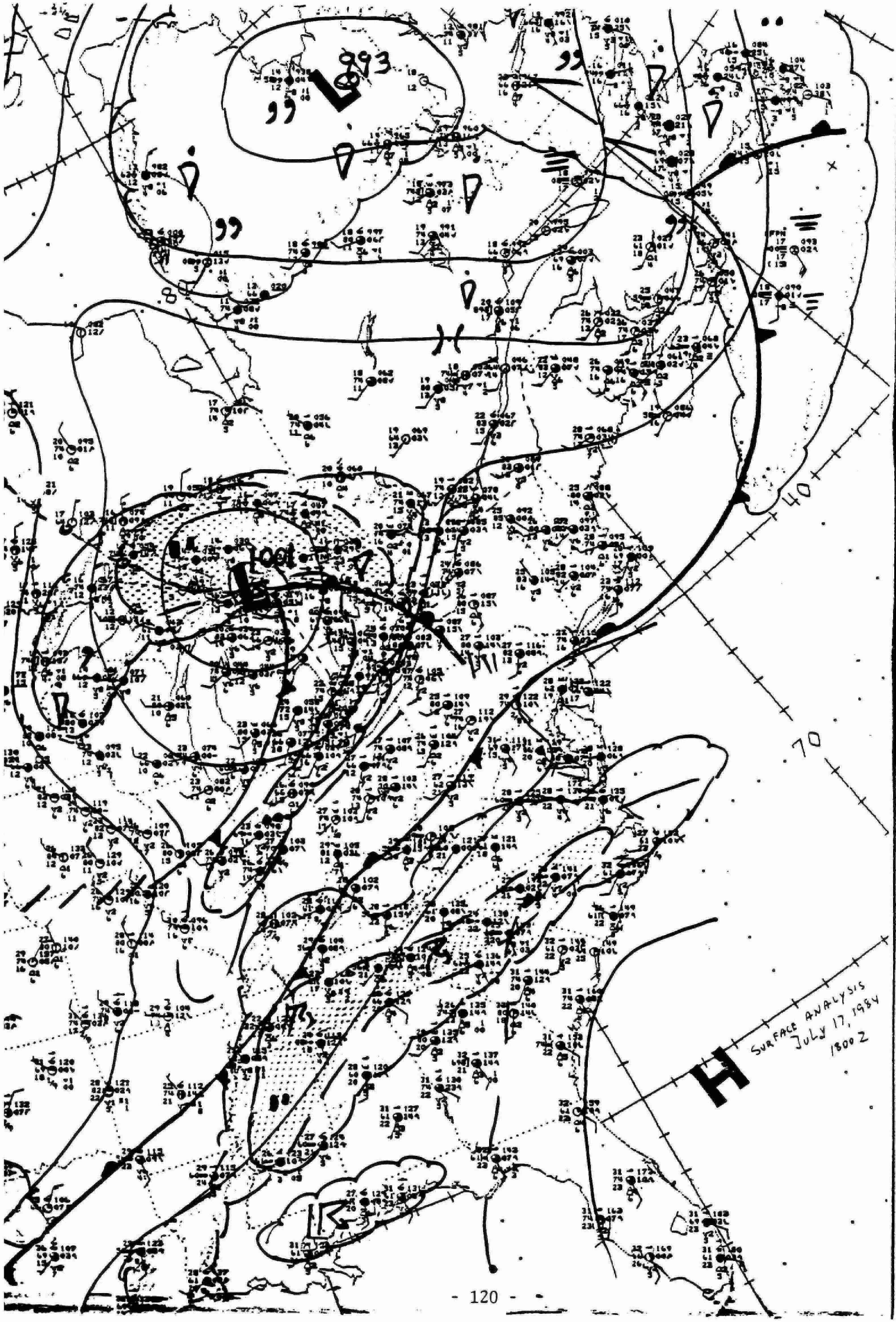

Surface Analysis
July 16 1984
1200 Z

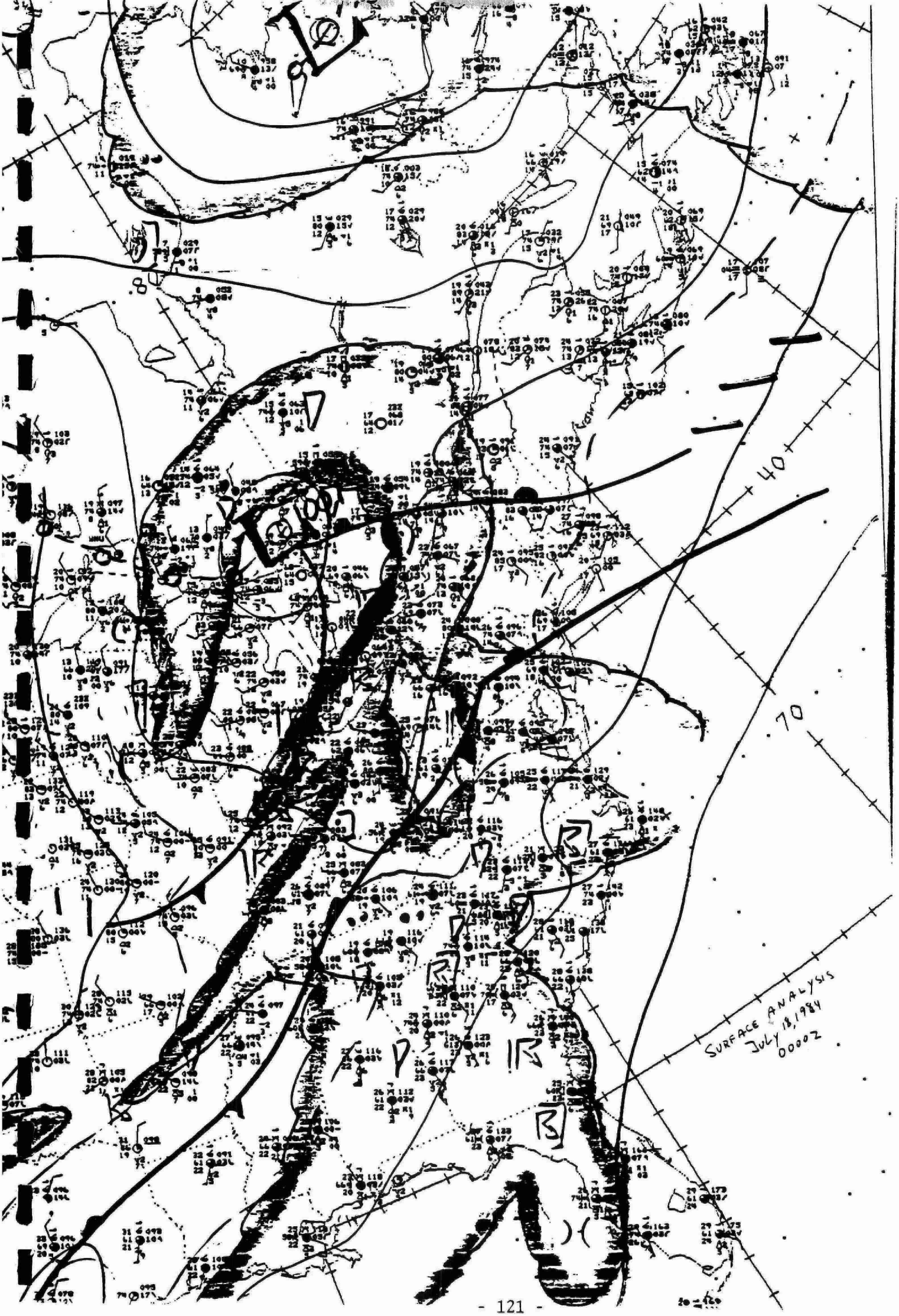

993
1005
1017
70
SURFACE ANALYSIS
JUNE 16 1984
1800Z

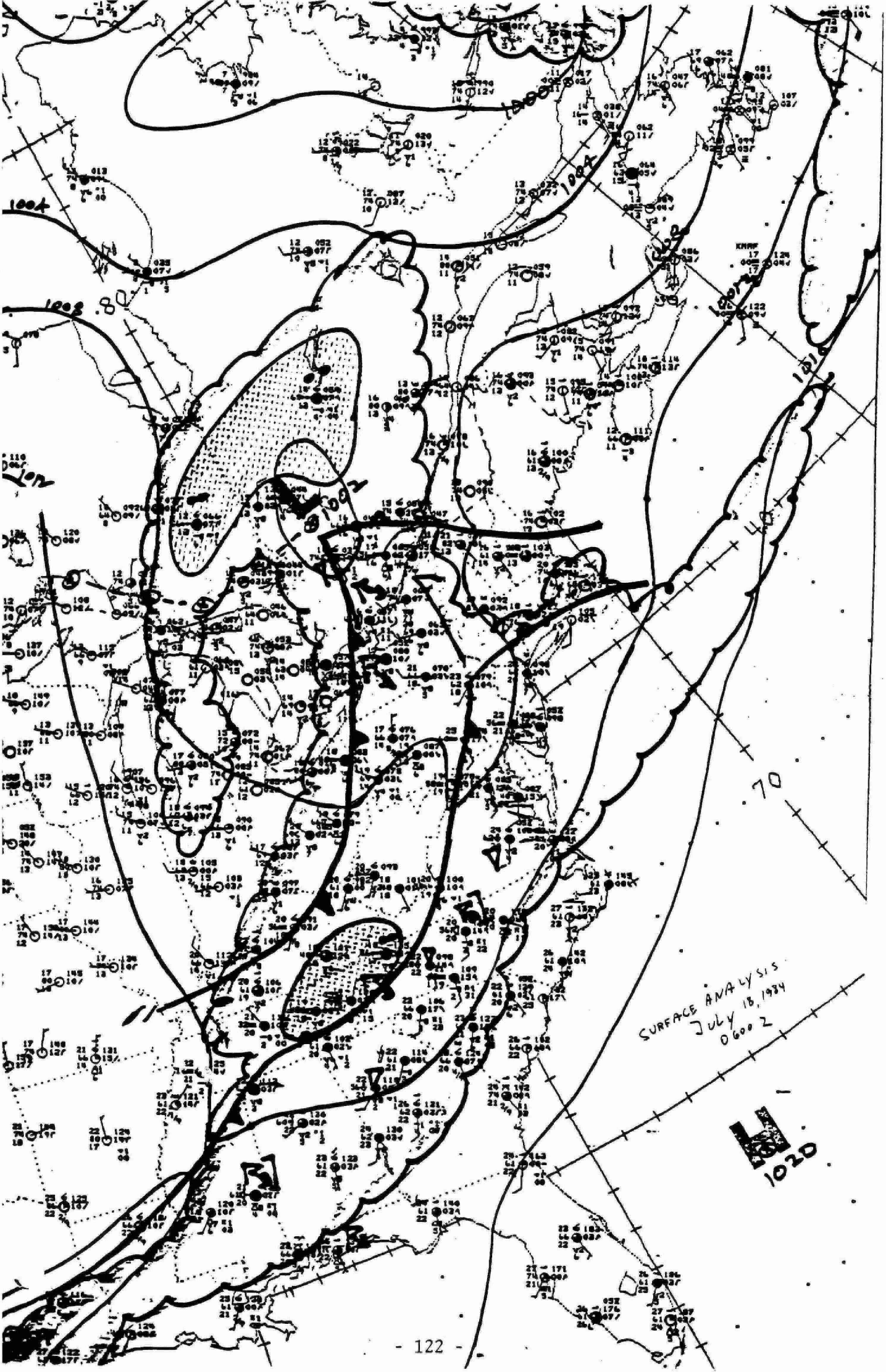

SURFACE ANALYSIS
JULY 17 1981
0000Z
NEW

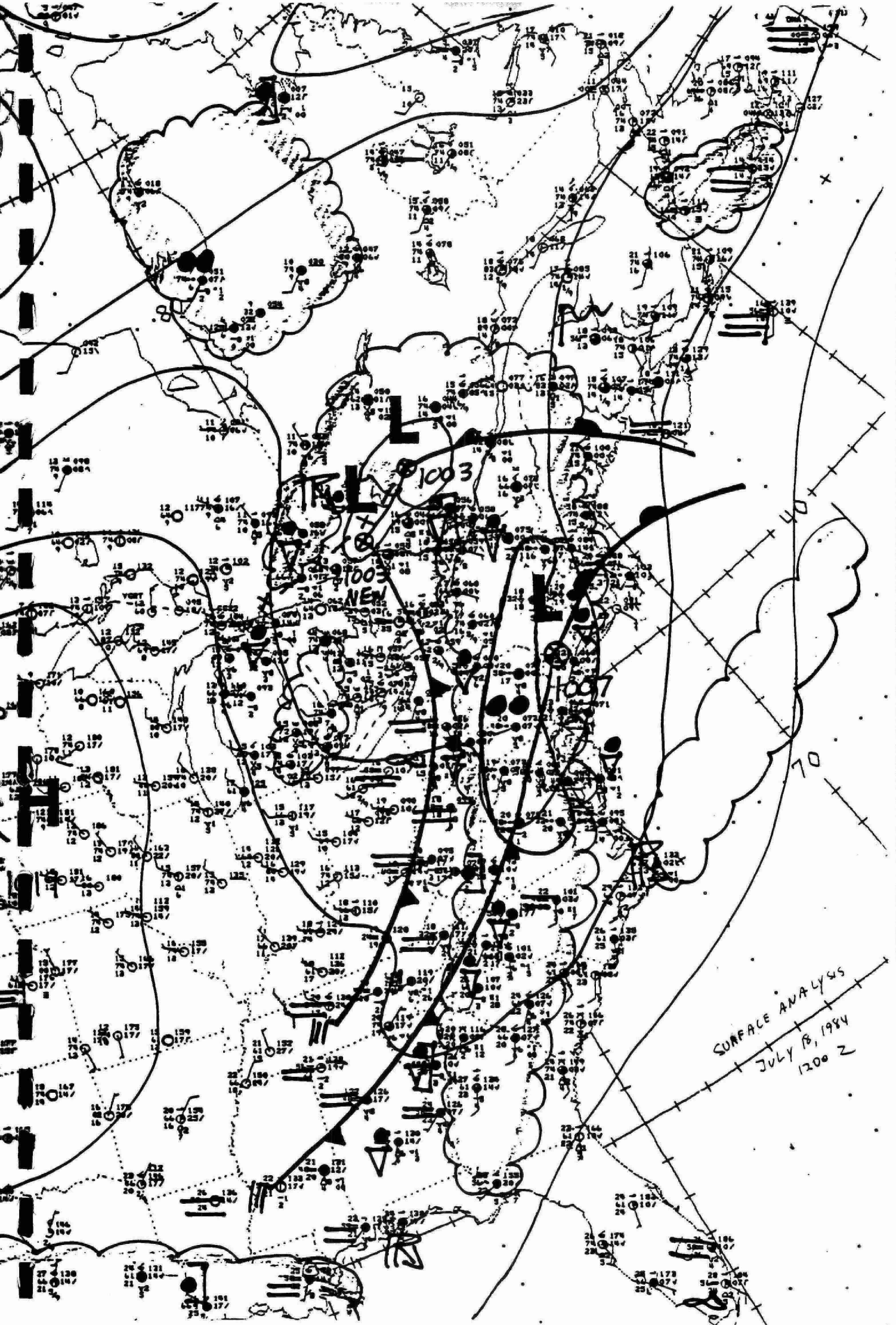

SURFACE ANALYSIS
JULY 17, 1994
0600Z

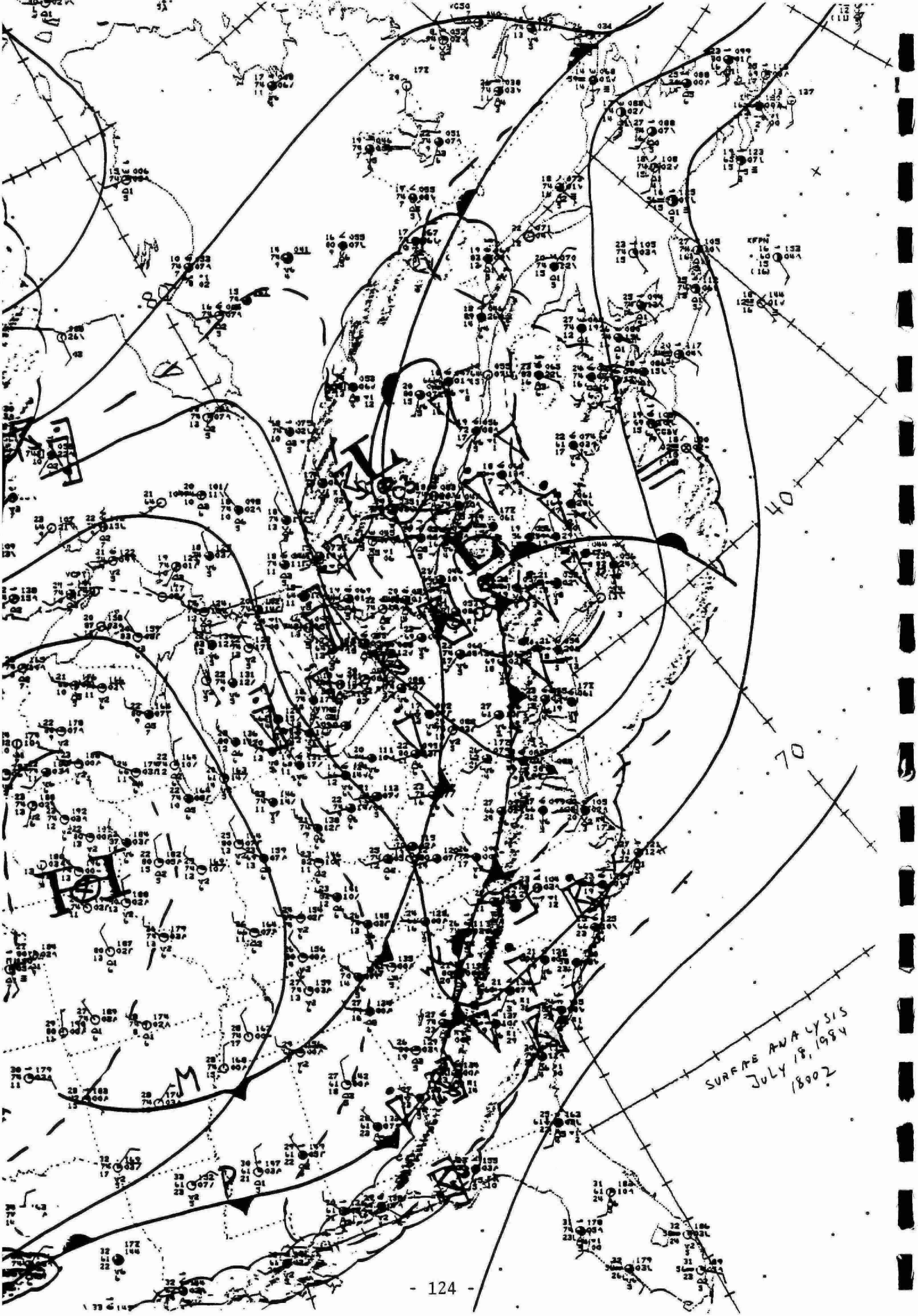

L
1002
.80
40
70
1013
SURFACE ANALYSIS
JULY 17, 1984
12002


L 993
L 1001
40
70
H
SURFACE ANALYSIS
JULY 17, 1984
1800 Z


SURFACE ANALYSIS
JULY 18, 1984
00002


1004
1008
.80
1004
1004
1012
1016
1020
1020
1024
1028
1032
1036
1040
1044
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1064
1068
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1076
1080
1084
1088
1092
1096
1100
1104
1108
1112
1116
1120
1124
1128
1132
1136
1140
1144
1148
1152
1156
1160
1164
1168
1172
1176


L
1003
L
1003
NEW
L
1007
40
70
SURFACE ANALYSIS
JULY 18, 1984
1200 Z


SURFACE ANALYSIS
JULY 18, 1984
1800Z

4. SURFACE METEOROLOGICAL DATA

(ALL TIMES ARE EXPRESSED IN LOCAL STANDARD TIME (LST))

4.A WIND DIRECTION

[redacted] A [redacted] OLLUTION SU[redacted]

MET. DATA WIND DIRECTION — UNITS

STATION RIVER BEND — MONTH JUN 1984

HOUR / DAY	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	MEAN
1	WSW	SW	W	W	NW	NW	V	C	SW	SSW	S	SSW	V	V	V	NNE	NNE	N	NNE	N	NNW	N	N	N	
2	NNW	N	N	N	N	N	NNE	ESE	ESE	ESE	SE	ESE	SE	SSE	SE	SE	SE	ESE	ESE	ESE	ESE	SSE	C	C	
3	C	V	WNW	WNW	WNW	WNW	W	WNW	WNW	WNW	WNW	WNW	WNW	WNW	WNW	WNW	NW	W	SSW	SSW	S	SSW	SSW	SSW	
4	SSW	SSW	SSW	SSW	C	V	V	SW	SSW	SSW	SSW	SSW	S	S	S	S	S	S	SSE	SSE	SSE	SE	SE	SSE	
5	SSE	SE	SE	SE	SE	SE	SE	V	V	ESE	SE	SSE	SSE	SSE	SSE	SSE	SSE	SSE	SSE	SSE	SSE	SSE	SSE	SSE	
6	SSE	S	S	S	S	S	S	SSW	SSW	SSW	S	S	SSW	S	V	V	SSE	SSE	SE	SSE	SSE	SSE	SSE	SSE	
7	SSE	SSE	SSE	SSE	S	S	S	S	S	S	S	SSE	S	S	S	S	S	S	S	S	S	SSE	S	SSE	
8	SSE	SSE	SSE	SSE	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	
9	S	S	SSW	SSW	SSW	C	SSW	SSW	SW	W	SSW	V	W	V	V	SSE	S	NNW	N	N	N	C	V	C	
10	C	C	SSE	S	S	SSE	S	S	S	S	S	S	S	S	S	S	SW	SW	SW	SW	SSW	V	SW	WSW	
11	WSW	WSW	W	WSW	W	W	WNW	WNW	WNW	NW	NNW	NW	NW	NW	N	NNW	NNE	N	NW	NNW	NW	V	SE	SE	
12	C	C	C	C	C	SSE	SSE	SE	S	S	S	S	S	S	S	S	S	S	SSE	SSE	SSE	SSE	S	S	
13	S	SSW	S	S	C	C	C	V	V	V	V	N	NNE	V	SW	SSW	SW	WSW	SSW	S	C	V	SW	SSW	
14	C	N	NNW	NNW	NW	WNW	WNW	WNW	NW	NNW	N	N	N	N	N	N	N	NNW	NNW	NW	NW	C	NNW	C	
15	V	V	V	NNE	N	N	N	N	NNE	NNE	V	WNW	NW	WNW	NW	N	N	NNE	NNE	NNE	C	N	C	C	
16	C	C	C	C	V	E	E	E	E	ESE	SE	S	S	SSW	SSW	SSW	S	S	S	SSE	SE	SE	SSE	SE	
17	SE	ESE	ESE	ESE	ESE	ESE	V	ENE	E	ENE	E	ESE	SE	SE	SE	SE	SE	SE	SE	SE	SE	N	SSE	SSE	
18	V	S	SSW	V	V	SSW	SSW	N	SSW	SSW	V	WSW	WSW	W	W	WSW	W	WNW	NW	NNW	C	C	C	C	
19	C	C	C	C	C	C	C	V	WNW	NW	NW	V	NNE	NNE	NNE	NNE	N	N	N	N	NNW	N	N	N	
20	N	N	NNW	N	N	N	N	NNE	ENE	NNE	NNE	N	NNE	N	N	N	N	N	NNW	N	N	C	C	C	
21	C	C	V	C	C	V	NW	N	ENE	E	E	E	V	N	N	NNE	N	N	NNE	N	N	NNW	C	V	
22	V	N	N	C	C	V	NE	ENE	ENE	E	E	ESE	E	E	E	E	E	E	ENE	E	E	ENE	E	E	
23	E	E	E	E	ENE	ENE	E	E	E	ESE	SE	ESE	ESE	SE	S	ESE	E	SE	SE	V	SE	ESE	SSE	SSW	
24	C	V	SSW	SSW	SW	SW	SW	SW	WSW	W	WSW	WSW	WSW	W	WSW	W	WSW	WSW	WSW	SW	SW	SW	C	V	
25	C	C	C	C	C	C	W	W	W	WNW	W	W	WNW	WNW	V	V	N	NW	N	N	N	C	C	C	
26	C	C	S	C	S	C	V	C	SSW	SSW	SSW	S	S	S	S	S	S	SSE	SSE	SSE	SE	SSE	SE	ESE	
27	SE	SSE	S	S	S	S	S	S	S	S	SSW	SW	SW	SW	WSW	SW	SW	WSW	WSW	SW	SW	SW	C	V	
28	C	C	C	C	V	C	V	C	SW	SW	WSW	WSW	WSW	WSW	WSW	W	WNW	WNW	NW	NNE	N	N	N	NNW	
29	N	N	NNW	C	WNW	C	NNW	N	N	NNW	NW	NNW	N	NNW	NNW	NNW	N	N	N	N	NNW	NW	NNW	N	
30	N	N	N	N	N	N	N	N	NNW	N	N	NNW	N	N	N	N	N	N	N	N	N	NNW	NNW	N	

PERCENTAGE OF DATA VALID 100.0

WIND VELOCITY AND DIRECTION DISTRIBUTIO

DIRECTION	N	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	NW	NNW	V	C	NR
%FREQUENCY	13.9	3.2	0.1	1.4	4.0	3.2	5.6	8.1	15.0	6.2	4.0	3.5	2.9	4.0	3.2	4.3	6.9	10.4	0.0
AV. VELOCITY	12.7	13.4	21.0	9.6	11.1	12.4	10.5	12.6	18.3	10.0	11.8	13.6	10.9	12.3	8.6	10.9	6.9	0.5	

SARNIA AIR POLLUTION SURVEY

MET. DATA WIND DIRECTION UNITS

STATION RIVER BEND MONTH JUL 1984

HOUR DAY	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	MEAN
1	NNW	NNW	N	NNW	NW	WNW	WNW	NW	NNW	V	N	NNW	NNW	NNW	N	N	N	N	NNW	NNW	C	C	C	V	
2	E	E	E	E	E	C	V	V	S	S	SSW	SSW	SSW	C	SSW	SW	NNE	ENE	ESE	SE	SE	SSE	SSE	S	
3	C	C	S	S	C	C	SSW	SSW	SSW	SSW	SSW	SSW	SSW	SSW	S	S	SSW	SW	SSW	S	SSE	SSE	S	C	
4	C	S	SSW	SW	C	C	SSW	WSW	SW	V	V	V	S	S	SSW	NNW	NNE	NNE	ENE	V	C	C	C	C	
5	SSW	SSW	C	C	C	C	C	C	C	W	V	V	S	S	V	SSW	S	S	S	S	S	S	S	S	
6	SSE	C	C	C	SSE	V	NW	V	S	S	S	SW	SW	SSW	WSW	W	W	W	WNW	WNW	WNW	W	WSW	C	
7	C	C	C	C	C	C	WSW	WSW	W	W	WNW	W	WNW	WNW	W	W	W	W	W	C	C	NE	NE	C	
8	C	V	V	C	C	C	V	C	V	C	V	V	V	C	V	V	S	SSE	S	S	SE	SE	SE	SSE	
9	SSE	SSE	C	SSE	V	SE	SE	SSE	SSE	S	SSE	SSE	SSE	S	S	S	S	S	SSE	SSE	SSE	SSE	SE	NR	
10	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	
11	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	
12	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	
13	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	
14	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	S	S	SSW	SSW	SSW	SSW	SSW	SW	SW	SSW	SSW	SSW	SSW	
15	SSW	SSW	SSW	SSW	SSW	SSW	SSW	SSW	SSW	SSW	SSW	SSW	SSW	SSW	SSW	SSW	SSW	SSW	SSW	SSW	SSW	SSW	SSW	SSW	
16	SSW	SSW	SSW	SSW	SSW	SSW	SSW	SSW	SSW	SSW	SSW	SSW	SSW	SSW	SSW	SSW	SSW	SSW	SSW	SSW	SSW	SSW	SSW	SSW	
17	SSW	SSW	SSW	SSW	SSW	SSW	SSW	SSW	SSW	SSW	SSW	SSW	SSW	SSW	SSW	SSW	SSW	SSW	SSW	SSW	SSW	SSW	SSW	SSW	
18	SSW	SSW	SSW	SSW	SSW	SSW	SSW	SSW	SSW	SSW	SSW	SSW	SSW	SSW	SSW	SSW	SSW	SSW	SSW	SSW	SSW	SSW	SSW	SSW	
19	S	SSW	SSW	SSW	S	S	S	S	S	S	S	S	S	SSW	S	S	S	S	S	SSW	S	S	SSW	S	
20	V	V	V	V	V	V	V	WNW	NW	NW	NW	NW	NW	NW	NW	V	NNE	NR	NR	NR	NR	NR	NR	NR	
21	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	V	C	C	V	V	N	N	
22	N	N	N	N	C	V	C	SSE	V	V	V	SSE	V	V	V	SW	V	V	WSW	SW	SW	SW	WSW	SW	
23	V	C	C	V	SW	V	SSE	V	SE	SE	SSE	SSE	SSE	V	V	SSE	S	S	C	N	SSE	SSE	S	NNW	
24	V	SE	C	C	C	C	C	C	C	C	N	C	V	V	V	V	V	V	ESE	SE	SE	SE	SSE	SE	
25	ESE	V	N	N	N	N	N	N	N	N	V	V	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	
26	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	
27	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	
28	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	C	C	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	
29	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	
30	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	
31	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	V	V	V	SSE	V	V	SE	SE	

PERCENTAGE OF DATA VALID 62.6

WIND VELOCITY AND DIRECTION DISTRIBUTIO

DIRECTION	N	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	NW	NNW	V	C	NR
%FREQUENCY	3.0	0.5	0.3	0.3	0.7	0.4	2.3	4.2	8.3	16.8	1.9	0.9	1.7	1.2	1.3	1.5	8.9	8.5	37.4
AV. VELOCITY	8.3	9.3	2.5	10.0	3.4	4.3	5.2	7.6	10.9	8.7	6.2	7.7	8.9	7.9	9.3	10.4	5.6	0.4	

SARNIA AIR POLLUTION SURVEY

MET. DATA WIND DIRECTION — UNITS

STATION LASALLE ROAD — MONTH JUN 1984

HOUR DAY	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	MEAN
1	W	WNW	NW	NNW	NNE	NNE	C	C	W	S	V	V	V	V	V	NNE	NNE	NNE	NNE	NE	NE	NE	C	C	
2	C	ENE	C	C	C	ENE	C	SE	SE	S	S	S	S	S	S	S	S	S	S	SSE	SSE	S	SW	N	
3	C	WNW	NNW	NNW	NW	NW	NW	NW	NNW	NW	NW	NW	NNW	NNW	N	N	NNW	WNW	W	WSW	SW	W	WSW	W	
4	W	W	W	W	W	WSW	W	W	W	W	WSW	WSW	SW	WSW	WSW	SSW	SSW	SW	SSW	SSW	S	S	S	S	
5	S	S	S	S	S	S	S	V	V	SSE	S	S	S	S	S	S	S	S	S	S	S	S	S	SSW	
6	SSW	SSW	SSW	SW	SSW	SSW	SW	WSW	WSW	WSW	WSW	SW	WSW	SW	V	V	SSW	S	S	S	S	S	SSW	SSW	
7	S	SSW	SSW	SSW	SSW	SSW	SSW	SSW	SW	SW	SSW	SSW	SSW	SSW	SW	SSW	SW	SSW	SSW	SSW	SSW	SSW	S	SSW	
8	SSW	SSW	SSW	SSW	SSW	SSW	SW	SSW	SSW	SW	SW	SW	SW	SW	WSW	SW	SW	SW	SW	SW	SW	SW	SW	SW	
9	SW	SW	WSW	WSW	WSW	WSW	WSW	WSW	W	WNW	W	V	V	NNE	NE	V	SW	NNE	NNE	NNE	NE	N	C	C	
10	C	ENE	SSW	SSW	SSW	SSW	SSW	SW	SW	SW	SW	SW	SW	SW	SW	SW	W	W	W	W	W	W	W	W	
11	WNW	WNW	WNW	WNW	WNW	NW	NW	N	N	N	NE	NE	NE	NNE	NNE	NNE	NE	NNE	NNE	NE	C	ENE	SSE	C	
12	S	S	C	S	S	S	S	S	SSW	SSW	SSW	SSW	SW	SSW	SW	SSW	SSW	SSW	SSW	S	S	SSW	SSW	SSW	
13	SW	WSW	WSW	WSW	W	W	C	WNW	NW	V	NNE	NNE	NE	NE	W	WSW	W	WNW	WSW	SW	V	SW	W	W	
14	W	N	N	N	N	N	NNW	NNW	NNW	NNE	NNE	NNE	N	NNE	NNE	NNE	NNE	NNE	NNE	N	N	N	NNE	NNE	
15	NE	NE	NNE	NE	NNE	NE	ENE	ENE	ENE	E	V	N	NE	NNE	NNE	NNE	NE	NE	ENE	ENE	ENE	ENE	C	S	
16	C	C	ESE	E	E	ESE	ESE	SE	SE	SSE	S	SSW	S	S	SSW	SW	SW	SSW	SSW	S	S	S	S	S	
17	S	SSE	SSE	SSE	SSE	SE	V	ESE	SE	ESE	SE	SSE	S	S	S	S	S	S	S	S	S	V	SSW	V	
18	SSW	SSW	SW	W	W	WSW	WSW	WSW	WSW	WSW	W	WNW	WNW	WNW	WNW	WNW	W	NW	NNW	NNE	NNE	C	NNW	NW	
19	C	C	NE	ENE	V	C	V	NNW	NR	N	NNE	NE	NNE	NNE	NNE	NNE	NNE	NNE	NNE	NNE	NNE	NNE	NE	NNE	
20	NNE	NNE	C	NE	ENE	ENE	NE	ENE	E	E	NE	NE	NE	NNE	NNE	NNE	NE	NE	NE	NE	NNE	ENE	NE	C	
21	C	C	C	C	C	C	ENE	ENE	E	ESE	V	V	NNE	NNE	NNE	NNE	NNE	NNE	NNE	NE	NE	NE	ENE	C	
22	E	C	E	C	NE	C	E	E	ESE	ESE	SE	SSE	SSE	SE	SE	SSE	SSE	SE	ESE	E	E	E	ESE	SE	
23	SE	SE	ESE	ESE	E	ESE	ESE	SE	SE	SSE	S	S	SSE	S	SSW	S	V	S	S	SE	S	SSE	S	SSW	
24	WSW	WSW	W	W	W	W	W	W	W	WNW	WNW	W	WNW	WNW	WNW	WNW	WNW	WNW	WNW	W	W	W	NNW	WNW	
25	WNW	WNW	W	WNW	WNW	WNW	NW	NW	WNW	NW	NW	NW	NW	NNW	NNE	NE	NNE	NNE	NE	ENE	NE	C	NE	C	
26	C	C	C	C	C	V	C	C	WSW	WSW	WSW	WSW	SW	SW	SW	SW	SSW	SSW	S	S	S	S	S	S	
27	S	S	SSW	SSW	SSW	SSW	SSW	SSW	SW	SW	WSW	W	W	W	W	W	W	W	W	W	W	W	WNW	W	
28	WSW	W	W	WNW	W	W	W	W	W	W	W	WNW	WNW	WNW	WNW	WNW	NW	N	NNE	NNE	NNE	NNE	ENE	NE	
29	NE	ENE	NE	NE	NNE	NNE	NE	NE	NNE	NNE	NNE	N	NNE	NNE	NNE	NNE	NNE	NE	NNE	NNE	N	NNE	NNE	NE	
30	NE	NE	ENE	NE	NE	NE	NE	NE	NNE	NNE	N	N	NNE	NNE	NNE	N	NNE	NNE	NNE	NNE	NNE	NNE	NNE	NNE	

PERCENTAGE OF DATA VALID 99.9

WIND VELOCITY AND DIRECTION DISTRIBUTIO

DIRECTION	N	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	NW	NNW	V	C	NR
%FREQUENCY	3.3	13.1	7.6	3.2	1.9	1.9	2.4	2.4	11.9	10.3	7.4	5.1	9.4	5.4	2.8	2.1	3.3	6.2	0.1
AV. VELOCITY	11.8	10.1	7.9	5.4	4.9	6.4	6.6	6.9	10.6	15.6	22.8	12.8	11.9	13.6	13.6	12.3	7.0	0.0	

SARNIA AIR POLLUTION SURVEY

MET. DATA WIND DIRECTION UNITS

STATION LASALLE ROAD MONTH JUL 1984

HOUR DAY	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	MEAN
1	NNE	NNE	NNE	NNE	NNE	NNE	NE	NNE	NNE	NNE	NE	NNE	NNE	N	N	N	NNE	NNE	NE	ENE	NE	C	C	W	
2	C	C	C	W	C	C	V	V	SW	SW	WSW	V	V	WNW	V	V	V	ENE	SSE	S	S	SSW	SSW	SSW	
3	SSW	SSW	SSW	SW	WSW	WSW	W	W	W	W	WSW	SW	WSW	WSW	WSW	SW	WSW	W	WSW	SW	SSW	S	SW	W	
4	V	WSW	WSW	W	WSW	W	WSW	WNW	W	W.	V	WSW	WSW	WSW	V	NE	ENE	E	E	V	S	WSW	W	SW	
5	W	W	W	WSW	W	W	V	WNW	NW	NNE	V	V	S	SW	N	W	WSW	SSW	SW	SW	SSW	SSW	SSW	SW	
6	SSW	SSW	V	SSW	S	SSE	NNW	V	SSW	SW	SW	W	WNW	W	WNW	WNW	WNW	NW	NW	NNW	NNW	NW	NW	WNW	
7	W	WNW	W	W	W	W	WNW	WNW	WNW	NW	NW	NW	NW	NW	NW	WNW	WNW	WNW	NW	NW	WNW	C	C	C	
8	C	C	V	W	NW	C	WNW	WNW	WNW	V	V	W	W	WNW	V	V	SSW	SSW	SSW	S	S	S	S	S	
9	S	S	SSW	S	S	S	S	SSW	SSW	SSW	SSW	SSW	SSW	SSW	SSW	SSW	SW	SSW	SSW	SSW	SSW	S	S	NR	
10	V	S	S	SSW	SSW	SW	V	V	W	WSW	WSW	W	W	W	W	V	NNE	NNE	NNE	NNE	NE	ENE	SE	S	
11	SW	WNW	W	WSW	W	W	W	W	W	W	NNW	N	N	N	NNW	NNW	NNW	WNW	W	W	WNW	NW	NW	NW	
12	NW	WNW	WNW	WNW	WNW	WNW	W	W	WSW	WSW	WSW	W	W	WNW	WNW	WNW	WNW	NNE	NR	C	C	C	C	C	
13	C	V	C	C	C	C	WSW	W	WSW	WSW	W	W	W	W	SSW	SSW	SSW	SSW	SSW	S	S	V	SSW	SW	
14	SW	SW	WSW	W	SW	SSW	WSW	SW	WSW	WSW	WSW	WSW	WSW	SW	SW	SSW	SSW	SSW	SW	SSW	SSW	SSW	SSW	S	
15	SSW	V	SSE	SSW	SSW	SSW	SSW	SW	SW	SW	SW	WSW	SW	SW	WSW	SW	SW	W	WNW	W	WNW	W	W	W	
16	W	W	W	WNW	WNW	WNW	WNW	WNW	WNW	WNW	WNW	WNW	WNW	NW	WNW	WNW	NW	NW	WNW	NW	C	C	NNE	C	
17	V	S	S	V	C	S	SSW	SSW	SSW	SW	WSW	SW	SW	SW	SW	SW	WNW	WSW	SW	WSW	WSW	W	W	W	
18	W	W	W	W	W	WNW	WNW	NW	NW	NW	NW	NW	N	NNE	N	N	N	NNE	N	N	C	W	C	C	
19	C	W	W	W	W	W	W	W	W	W	WNW	W	WSW	WSW	SW	WSW	SW	SW	SSW	SSW	SW	SW	SSW	SSW	
20	SSW	SSW	S	V	S	SSW	SW	WSW	SW	SW	WSW	WSW	WSW	SW	SSW	SSW	SSW	SSW	SW	SW	SW	WSW	V	SSW	
21	V	S	SSE	V	SSW	W	WNW	C	V	V	V	V	NNE	NNE	NNE	NNE	NE	NE	ENE	ENE	ENE	C	C	V	
22	C	C	C	C	C	C	C	W	SW	SW	SSW	SSW	SW	V	SW	SW	SSW	SSW	SSW	S	S	S	SSW	SSW	
23	SSW	SSW	SSW	SSW	SSW	SSW	SW	WSW	SW	WSW	WSW	WSW	SW	SW	SW	WSW	W	W	WNW	NW	W	WSW	WNW	NNW	
24	N	N	N	N	NW	WNW	NW	NNW	NNW	N	N	NNE	NNE	NNE	NNE	NNE	NE	NE	NE	ENE	ENE	ENE	ENE	ENE	
25	NE	NE	NE	V	WNW	V	V	NW	V	V	V	V	NR	NR	N	NNE	NNE	NNE	NE	NE	ENE	V	ESE	ESE	
26	C	C	ESE	C	SSE	C	S	S	S	S	S	SW	SW	V	ESE	ENE	ENE	E	SSE	SSE	SSE	C	V	N	
27	C	N	N	NW	NNW	NW	NNW	NNW	N	NNE	N	N	NNE	N	N	N	N	N	N	N	N	NNE	NNE	NNE	
28	NE	NE	ENE	ENE	NE	N	N	N	NNE	NNE	NNE	NNE	NNE	NNE	NNE	NE	NE	NNE	NE	NE	ENE	NE	C	C	
29	WNW	C	C	NE	V	V	C	ENE	ENE	NE	N	NNE	NNE	NNE	NNE	NE	NE	ENE	ENE	NE	NE	ENE	C	C	
30	C	V	C	C	C	C	C	V	W	WNW	V	V	WNW	V	V	SSW	SSW	SSW	SW	SSW	S	S	SSW	C	
31	SSW	S	S	SSW	C	C	S	SSW	SW	SW	WSW	WSW	WSW	SW	SW	SW	SSW	SSW	SSW	SW	SW	SSW	SW	SW	

PERCENTAGE OF DATA VALID 99.5

WIND VELOCITY AND DIRECTION DISTRIBUTIO

DIRECTION	N	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	NW	NNW	V	C	NR
%FREQUENCY	5.0	6.9	4.0	3.1	0.4	0.5	0.1	1.1	5.9	12.6	9.9	7.8	11.6	7.9	4.4	1.9	7.8	8.5	0.5
AV. VELOCITY	10.9	9.9	8.1	5.6	5.0	4.3	5.0	3.6	7.1	11.3	14.2	12.6	8.2	10.6	11.5	11.1	4.4	0.0	

SARNIA AIR POLLUTION SURVEY

MET. DATA WIND DIRECTION UNITS

STATION SIXTH LINE MONTH JUN 1984

HOUR DAY	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	MEAN
1	WSW	WSW	W	NNE	C	NNE	NNE	C	NNE	C	NNE	C	C	N	C	N	NE	NE	NE	NNE	NNE	NE	NE	NNE	
2	NE	C	C	C	C	C	E	E	C	N	NNE	SE	NNE	SSE	NNE	SSE	SE	NNE	C	NNE	ESE	NNE	SSW	C	
3	C	WNW	NW	NW	NW	WNW	WNW	NW	NW	NW	NW	NW	NNW	NW	NNW	NW	NNW	WNW	NNE	S	S	SSW	SSW	SW	
4	SW	SSW	SW	SSW	C	SSW	SSW	SW	WSW	SW	SW	SSW	SSW	SSW	SSW	S	S	S	S	C	C	C	C	NNE	
5	C	NNE	NNE	C	C	C	SSE	NNE	C	NNE	SE	SSE	SSE	S	SSE	SSE	SSE	SSE	SSE	SSE	SSE	SSE	S	S	
6	S	S	S	S	S	S	S	SSW	SW	SSW	SSW	SSW	SSW	S	NNE	NNE	S	S	SSE	SSE	SSE	SSE	S	S	
7	S	SSE	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	
8	S	S	S	S	S	S	S	S	S	S	S	S	SSW	SSW	SSW	SSW	S	S	S	S	S	S	S	S	
9	SSW	SSW	SSW	SSW	SSW	SSW	S	SSW	SW	SW	C	NNE	SSW	SSW	S	S	S	NNE	NE	NNE	NNE	C	C	C	
10	C	NNE	S	S	S	S	S	S	SSW	S	S	S	S	S	S	SSW	SW	SW	SW	SW	SW	SW	SW	WSW	
11	W	W	W	W	W	WNW	NW	NW	NNW	NNW	NNE	N	NNE	NNE	NE	NE	ENE	E	E	ESE	SE	C	C	C	
12	C	C	C	C	S	C	SSE	SSE	SSE	S	S	S	S	S	S	S	S	S	S	SSE	SSE	S	S	S	
13	SSW	SSW	SSW	SSW	C	SSW	SSW	SW	W	W	WSW	N	C	SW	SW	SW	SW	W	SSW	S	NNE	NNE	SW	SW	
14	WSW	N	NNE	N	N	NW	NW	NNW	NNW	NNE	NNE	NNE	NNE	NNE	NNE	NNE	NNE	NNE	NNE	NNE	NNE	N	NNE	NNE	
15	N	NE	NNE	NE	NNE	NE	NE	ENE	ENE	E	C	N	C	NNE	N	NNE	NE	NE	NE	NE	ENE	ENE	ESE	C	
16	C	NNE	ESE	ESE	ESE	ESE	ESE	ESE	E	C	NNE	NNE	S	S	S	SSW	SSW	S	S	SSE	SSE	SSE	S	C	
17	NNE	E	ESE	NNE	C	NNE	N	NNE	C	NNE	N	C	C	N	C	N	N	C	N	N	NNE	C	N	SSE	
18	NE	ESE	ESE	N	N	ENE	ESE	NNE	NNE	ESE	N	NNE	W	WNW	WNW	W	W	WNW	NNW	N	NNE	C	NNE	W	
19	NNE	WNW	C	C	C	C	NNE	WNW	NNW	NNW	NNW	N	ENE	NE	NE	NE	NE	NE	NE	NE	NNE	NNE	NNE	NNE	
20	NNE	NNE	NNE	NE	NE	ENE	NE	ENE	ENE	NE	ENE	N	N	NE	NE	NE	NE	NE	NNE	NNE	N	NE	NNE	C	
21	NNE	C	C	C	N	NNE	NE	NE	E	E	N	N	N	NE	NE	NE	NE	NE	NE	NE	NNE	NE	N	NE	
22	NNE	N	C	C	C	N	ESE	ESE	ESE	E	E	E	E	E	E	E	E	E	ENE	ENE	ENE	ENE	E	E	
23	E	E	E	E	ENE	ENE	E	E	E	E	NNE	N	NNE	SSE	S	E	NNE	SSE	NNE	ESE	C	E	NNE	S	
24	C	SW	SW	SW	SW	SW	SW	WSW	W	W	W	W	W	W	W	WNW	W	W	W	WSW	SW	WSW	NNE	WNW	
25	W	W	WSW	W	W	W	WNW	WNW	WNW	WNW	WNW	WNW	NW	NW	NW	NE	NNE	N	NE	C	NNE	NNE	NNE	E	
26	C	C	C	C	C	C	NNE	SSW	SW	SW	SSW	SSW	SSW	S	S	S	S	S	SSE	SSE	SSE	SSE	SSE	NNE	
27	NNE	SSE	S	S	S	S	S	S	SSW	SSW	SSW	WSW	WSW	WSW	WSW	W	WSW	WSW	W	WSW	WSW	WSW	WSW	SSW	
28	SW	SW	SW	WSW	WSW	C	SW	SW	W	WSW	WSW	WSW	W	W	W	W	WNW	NNW	N	NE	NE	NE	NNE	NNE	
29	NNE	NNE	NNE	NNE	N	N	NNE	NE	NE	N	N	NNW	NNE	NNE	NNE	NNE	NNE	NNE	NNE	NNE	NNE	NNE	NNE	NNE	
30	NE	NE	NE	NE	NNE	NNE	NE	NE	NE	N	NNE	N	N	N	N	N	NNE	NNE	NNE	NNE	NNE	N	N	NNE	

PERCENTAGE OF DATA VALID 100.0

WIND VELOCITY AND DIRECTION DISTRIBUTIO

DIRECTION	N	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	NW	NNW	V	C	NR
%FREQUENCY	6.9	16.9	8.3	2.4	4.3	2.5	0.6	4.9	15.1	7.4	5.1	3.5	4.9	2.6	2.4	1.8	0.0	10.4	0.0
AV. VELOCITY	8.8	9.8	10.8	7.2	7.5	7.4	4.5	8.1	14.6	13.5	8.5	11.5	12.0	12.4	14.6	10.5	0.0	0.3	

SARNIA AIR POLLUTION SURVEY

MET. DATA WIND DIRECTION UNITS

STATION SIXTH LINE MONTH JUL 1984

HOUR DAY	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	MEAN
1	NNE	NNE	NNE	NNE	N	N	NNE	NNE	NNE	NNE	NNE	NNE	NNE	N	N	N	NNE	NE	NE	C	C	C	C	NNE	
2	C	C	C	WSW	C	C	C	NNE	S	SSW	NNE	NNE	NNE	NNE	SSW	WSW	N	E	C	C	S	S	S	C	
3	C	S	S	S	SSW	C	SW	SW	SW	SW	SW	SSW	S	S	S	S	S	SW	SSW	S	S	S	SW	C	
4	SSW	SSW	SSW	SW	SSW	SSW	SSW	W	WSW	NNE	NNE	SSW	SSW	SSW	SSW	NNE	ENE	E	ESE	C	C	NNE	SSW	S	
5	SW	SW	SW	SW	SW	C	NNE	WNW	C	C	C	NNE	S	S	NNE	SW	SSW	S	S	S	S	S	S	S	
6	S	S	NNE	C	NNE	NNE	NNW	C	S	S	S	SW	WSW	SSW	W	W	WNW	WNW	NW	NNW	NW	WNW	WNW	W	
7	WSW	WSW	WSW	SW	WSW	WSW	WSW	W	WNW	NW	NW	NW	NW	NW	NW	WNW	WNW	WNW	WNW	W	WSW	C	C	C	
8	SSW	C	NNE	WSW	NNE	C	W	WNW	C	NNE	NNE	NNE	NNE	NNE	N	NNE	S	S	S	S	SSE	SSE	SSE	SSE	
9	SSE	SSE	C	C	C	C	SSE	SSE	S	S	S	S	S	S	S	S	S	S	S	SSE	S	C	N	NR	
10	NR	NR	NR	NR	NR	NNE	NNE	NNE	SSW	SW	SW	WSW	W	WSW	WSW	WSW	SW	N	NNE	NNE	NE	SE	C	S	
11	SSW	WNW	SW	SW	SW	SW	SW	SW	WSW	WSW	NNE	N	N	NNW	NW	NW	NW	WNW	W	WSW	W	W	WNW	WNW	
12	WNW	WNW	WNW	W	W	W	SW	WSW	SSW	SW	SSW	SSW	W	WNW	WNW	WNW	WNW	N	C	WNW	C	C	C	C	
13	C	SSW	C	C	C	C	NNE	SW	WSW	SSW	WSW	NNE	NNE	S	S	S	S	S	S	SSE	SSE	S	S	S	
14	S	S	S	SSW	SSW	S	S	SSW	SW	SW	SW	SW	SSW	S	S	S	S	S	S	S	S	S	SSW	SSE	
15	C	NNE	S	S	S	S	S	S	S	S	SSW	S	S	S	SSW	SSW	SSW	SW	W	WSW	W	WSW	SW	SW	
16	SW	SW	WSW	WSW	W	W	W	WNW	W	W	W	WNW	WNW	WNW	WNW	W	WNW	WNW	WNW	C	NNE	C	NNE	C	
17	C	S	S	SSW	C	S	S	S	S	S	SSW	S	SSW	SSW	S	S	SSW	SSW	SSW	SSW	SW	WSW	W	WSW	
18	WSW	WSW	WSW	SW	WSW	W	WNW	WNW	WNW	WNW	NW	NW	NW	NNW	N	N	NNE	NNE	NNE	NNE	C	C	C	C	
19	C	SSW	SSW	SSW	C	SW	SW	W	WSW	WSW	W	WSW	WSW	SSW	SSW	SSW	S	S	S	S	S	S	S	S	
20	S	C	S	S	S	S	SSW	S	SSW	SSW	SSW	SSW	SSW	S	S	S	S	S	S	S	S	S	NNE	S	
21	C	S	C	S	C	SSW	C	W	NNE	C	C	NNE	NNE	NNE	NNE	NNE	NE	NNE	NE	NE	C	NNE	NNW	ENE	
22	C	C	C	NNE	C	C	C	C	S	S	S	S	SSW	SSW	SSW	S	S	S	S	SSE	SSE	SSE	S	S	
23	S	S	S	S	S	S	SSW	SSW	SSW	SSW	SSW	SSW	SSW	S	S	S	S	S	NNE	WNW	WSW	SSW	W	NNW	
24	N	NNE	NNE	NNW	NW	W	W	WNW	NW	NNW	NNW	NE	NNE	NNE	NNE	NNE	NE	NE	NE	NE	NE	NE	NE	ENE	
25	NNE	NNE	NNE	C	WNW	WNW	WNW	NW	NNE	NNE	NNE	NNE	NE	NE	NE	NE	NE	NE	NE	NE	ENE	NNE	ENE	E	
26	C	C	N	C	E	C	C	C	C	NNE	S	S	SSW	SSW	N	NNE	NNE	C	C	C	C	C	NNE	NNE	
27	NNE	NNW	NW	NW	NW	NW	NW	NNW	N	NE	NNE	NNE	NNE	NNE	NNE	NNE	NNE	NNE	NNE	NNE	NNE	NNE	NNE	NNE	
28	NNW	NNW	N	C	NW	NNE	WNW	NNW	N	N	NNE	NE	NE	NNE	NNE	NNE	NNE	NNE	NNE	NE	NE	C	WNW	C	
29	WNW	NW	NNW	C	C	C	C	NNE	ENE	NE	N	N	NNE	NNE	NNE	NE	ENE	ENE	ENE	NE	C	N	C	C	
30	C	C	C	C	C	C	C	C	W	W	NNE	NNE	NNE	NNE	NNE	S	S	SSW	S	C	C	NNE	S	C	
31	C	C	C	C	C	C	C	NNE	S	SSW	SSW	SSW	S	S	S	S	S	S	S	S	S	S	S	S	

PERCENTAGE OF DATA VALID 99.2

WIND VELOCITY AND DIRECTION DISTRIBUTIO

DIRECTION	N	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	NW	NNW	V	C	NR
%FREQUENCY	3.2	15.6	4.0	1.2	0.5	0.1	0.1	2.0	21.1	9.8	5.5	5.0	4.6	5.8	3.2	2.0	0.0	15.3	0.8
AV. VELOCITY	12.2	9.1	10.4	6.2	3.7	3.0	2.0	6.1	10.7	11.1	6.8	6.7	9.4	10.5	11.3	8.3	0.0	0.3	

SARNIA AIR POLLUTION SURVEY

MET. DATA WIND DIRECTION UNITS

STATION FRONT STREET MONTH JUN 1984

HOUR DAY	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	MEAN
1	NE	ENE	E	V	NNW	C	C	V	V	C	NNW	V	N	N	NNW	N	N	NNW	NNW	NNW	N	N	N	NNW	
2	NNW	NNW	NNW	V	C	C	V	C	C	SSE	SE	SE	SSE	SE	SSE	SE	SSE	SE	SE	SE	SE	SSE	C	V	
3	N	WNW	NW	NW	WNW	WNW	WNW	NW	NW	NW	NW	NW	NW	NNW	NNW	NW	NNW	WNW	WSW	SW	SW	SW	SW	WSW	
4	SW	WSW	SW	SW	SW	SW	SW	SW	WSW	WSW	SW	WSW	SW	SW	SW	SW	SW	SW	SW	SSW	V	S	SSE	S	
5	S	SSE	SSE	SSE	S	S	S	WSW	SSW	V	S	S	SSW	SSW	S	S	S	S	S	S	S	S	SSW	SSW	
6	SSW	SSW	SW	SW	SW	SW	SW	SW	SSW	SSW	SSW	SSW	SSW	SSW	WSW	S	SSW	S	S	S	S	S	S	S	
7	S	S	S	S	S	SSW	SSW	SSW	SSW	SSW	SSW	S	SSW	S	SSW	SSW	SSW	SSW	S	SSW	S	SSW	SSW	S	
8	S	S	S	S	S	S	SSW	SSW	S	S	S	S	S	SSW	SSW	S	S	SSW	SSW	S	SSW	S	S	S	
9	SSW	SSW	SSW	SSW	SSW	SSW	SSW	SW	SW	SW	V	SSW	WNW	WNW	WNW	WNW	WNW	NW	NW	NW	NW	WNW	NW	NW	
10	C	C	S	S	SSW	S	S	S	S	SSW	S	S	S	SSW	SSW	SSW	SW	SW	SW	SW	C	SW	SW	SW	
11	WSW	WSW	WSW	WSW	W	W	WNW	WNW	WNW	NW	NW	NW	NW	NW	NW	NW	WNW	WNW	WNW	NW	NW	C	C	C	
12	SSE	C	C	SSE	SSE	SSE	SSE	SSE	S	S	S	SSW	S	S	SSW	S	S	S	S	SSE	S	S	S	SSW	
13	SSW	SSW	S	SSW	C	C	C	C	WNW	WNW	NW	NW	WNW	WNW	WNW	NW	V	W	S	C	C	SSE	S	SW	
14	WSW	NNW	NNW	NNW	NNW	NW	NW	NW	N	N	N	N	N	N	N	N	N	NNW	N	NNW	N	N	N	N	
15	N	N	N	N	N	N	N	N	NNW	NW	N	NNW	NNW	NNW	NNW	N	N	N	NE	NNE	N	C	C	C	
16	C	C	C	C	C	V	V	V	WSW	W	V	SSE	V	S	S	S	S	S	S	SSE	C	SE	SSE	SE	
17	SE	C	ESE	ESE	C	V	V	W	V	V	V	V	S	SSE	S	S	S	S	S	SSE	V	V	SSW	SSW	
18	SSW	SSW	SSW	C	SSW	SSW	SSW	SSW	SSW	SSW	SW	SW	WSW	W	WSW	WSW	WSW	W	WNW	NW	C	C	C	V	
19	C	C	C	V	C	V	SSW	S	S	NW	NW	NNW	NW	NW	NW	NW	NW	NW	V	N	N	N	N	N	
20	N	N	N	N	N	N	N	N	WNW	N	NNE	NNE	NNE	NNE	NNE	NNE	NNE	NNE	NNE	NNE	NNE	NNE	NNE	NNE	
21	N	N	C	N	N	N	NNE	NNE	N	N	NNE	NNE	NNE	NNE	NNE	NNE	NNE	NNE	NNE	NE	NNE	NNE	NNE	NNE	
22	C	C	V	C	C	C	N	V	ESE	V	V	V	E	V	V	E	E	V	ESE	C	ESE	E	V	WSW	
23	V	V	V	V	C	V	C	W	V	V	SSE	SSE	SSE	SSE	S	S	SSE	V	SSE	SE	SSE	V	C	S	
24	SSW	SSW	SW	SW	SSW	SW	SW	SW	WSW	WSW	WSW	SW	WSW	WSW	WSW	WSW	W	WSW	SW	SW	SSW	V	W	WSW	
25	WSW	WSW	WSW	WSW	WSW	WSW	WSW	W	W	W	W	W	W	WNW	NW	C	WNW	NW	NW	NW	NNW	NW	C	C	
26	C	C	C	C	C	C	SSW	SSW	SSW	SW	SW	SW	SW	SW	SW	SSW	SSW	S	S	S	S	S	S	S	
27	SSE	S	S	SSW	S	SSW	SSW	S	S	S	S	SW	SSW	SW	SW	SW	SW	SW	SW	SW	SW	SSW	SW	SW	
28	S	SSW	SSW	SW	SW	SW	SW	SW	SSW	SW	SW	SW	SW	SW	SW	WSW	W	WNW	N	NNE	C	NNE	NNE	NNE	
29	N	N	N	N	NNW	N	N	N	NNW	N	N	N	NNW	NNW	N	N	N	N	N	N	N	N	N	N	
30	N	N	N	N	N	N	N	N	N	NNW	NNW	N	N	N	N	N	N	N	N	N	N	N	N	N	

PERCENTAGE OF DATA VALID 100.0

WIND VELOCITY AND DIRECTION DISTRIBUTIO

DIRECTION	N	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	NW	NNW	V	C	NR
%FREQUENCY	13.9	4.7	0.4	0.1	0.7	0.7	1.7	4.2	14.9	11.7	10.3	5.0	2.4	3.7	6.2	4.4	6.5	8.5	0.0
AV. VELOCITY	9.5	9.1	5.3	9.0	7.4	3.2	5.3	5.3	12.1	12.4	10.4	11.5	11.9	10.0	9.8	9.7	5.3	0.4	

SARNIA AIR POLLUTION SURVEY

MET. DATA WIND DIRECTION UNITS

STATION FRONT STREET MONTH JUL 1984

HOUR DAY	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	MEAN
1	N	N	N	N	N	NNW	N	N	N	N	N	N	N	N	N	N	N	N	N	N	NNW	NNW	W	W	
2	C	C	C	C	C	C	C	C	SSW	SSW	SSW	SSW	SSW	SSW	C	SSE	SSE	ESE	SE	SSE	S	S	S	S	
3	S	SSW	SSW	SSW	C	SSW	SW	SW	SW	S	S	S	S	S	S	S	S	S	S	S	S	S	SSW	SSW	
4	V	S	S	S	S	C	S	SW	SSW	C	V	S	S	V	NR	NR	NR	NR	NR	V	SSE	SSE	V	S	
5	S	S	C	V	S	C	C	C	C	W	NNW	NNW	N	NNW	NNW	C	SSW	SSW	SSW	SSW	SSW	SSW	SSW	SSW	
6	SSW	SSW	SW	V	S	NR	NR	NR	NR	SSW	SSW	WSW	WSW	WSW	WSW	W	W	WNW	WNW	WNW	WNW	W	W	W	
7	WSW	W	W	WSW	WSW	WSW	WSW	W	W	WNW	WNW	WNW	WNW	WNW	W	W	W	W	W	WNW	WSW	WSW	SW	SW	
8	C	C	C	W	C	C	C	C	C	C	C	V	V	C	V	SW	S	S	SSW	S	S	S	S	S	
9	S	S	S	SSE	SSE	SSE	SSE	S	SSW	SSW	SSW	SSW	S	SSW	SSW	SSW	SSW	SSW	SSW	S	S	SSW	SSE	SSE	
10	S	S	S	S	SSW	SSW	V	V	S	W	SW	SW	SW	WSW	SW	NW	NNW	NW	NW	NW	C	C	V	S	
11	V	WSW	SW	SSW	SW	SW	SW	SW	SW	WSW	NW	NW	NW	NW	WNW	WNW	WNW	W	WSW	SW	W	W	C	WNW	
12	W	C	C	WSW	WSW	WSW	SW	SW	SW	SSW	SSW	SW	WSW	W	W	W	WNW	NW	NNW	N	N	C	C	C	
13	C	SSW	C	C	C	C	V	SSW	SSW	SSW	SW	SW	C	SSW	SSW	SSW	SSW	SSW	SSW	S	S	S	S	SSW	
14	SSW	SSW	SSW	SSW	SSW	SSW	SSW	SSW	SSW	SSW	SSW	SW	SSW	SSW	SSW	SSW	SSW	SSW	SSW	V	V	SSW	SSW	SSW	
15	SSW	SSW	SSW	SSW	SSW	SSW	SSW	SSW	SSW	SSW	SSW	SSW	SSW	SSW	SSW	SSW	SW	WSW	W	WSW	WSW	WSW	WSW	SW	
16	SW	SW	SW	WSW	WSW	WSW	W	W	WSW	W	W	W	W	W	W	W	W	W	W	W	WSW	C	C	V	
17	C	NR	NR	S	S	S	S	S	S	S	SSW	S	SW	SSW	S	SW	SW	C	NR	NR	NR	WSW	WSW	WSW	
18	SW	SW	SSW	SSW	SW	SW	WSW	WSW	WSW	WNW	WNW	WNW	N	N	N	N	N	N	N	N	C	N	C	V	
19	SW	SW	SW	SW	SW	WSW	W	W	WSW	WSW	W	WSW	WSW	SW	SW	SW	SW	SW	SSW	SSW	SW	SW	SSW	SW	
20	SSW	SW	SSW	SW	SW	SW	SW	SW	SW	SW	SW	SW	SW	SSW	SSW	SSW	SSW	SSW	SSW	SW	SW	C	NR	NR	
21	N	N	N	N	NNE	C	C	C	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	C	NR	NR	NR	
22	NR	C	C	C	C	C	C	C	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	
23	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	SW	SW	SW	WSW	W	WSW	W	WNW	WNW	WSW	SW	W	NW	
24	NNW	NNW	NNW	NW	WNW	WNW	WNW	NW	NW	NW	NNW	NNW	NNW	NNW	NNW	NNW	NNW	NNW	NNW	N	NNW	N	N	N	
25	N	N	NNW	WNW	WNW	NW	NW	NW	NW	NW	NNW	NNW	N	N	N	N	N	N	N	NNE	NR	NR	NR	NR	
26	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	N	V	V	N	C	V	V	V	S	C	WNW	
27	NW	NW	WNW	WNW	WNW	WNW	WNW	NW	NNW	NNW	NNW	NNW	NNW	NNW	NNW	NNW	NNW	NNW	NNW	NNW	NNW	NNW	NNW	NNW	
28	NNW	NNW	NNW	NNW	NNW	NW	NW	NW	NNW	NNW	NNW	NNW	NNW	NW	NNW	NNW	NNW	NNW	NNW	NNW	NNW	NNW	NW	WNW	
29	WNW	WNW	WNW	NW	C	C	V	NNW	NNW	NNW	N	NNW	NW	NNW	NNW	NNW	NNW	NNW	N	NNW	C	C	C	C	
30	C	NR	NR	C	C	NR	C	NR	NR	NR	C	NR	C	C	C	NR	NR	NR	NR	NR	NR	NR	NR	NR	
31	NR	NR	C	C	C	NR	C	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	

PERCENTAGE OF DATA VALID 84.9

WIND VELOCITY AND DIRECTION DISTRIBUTIO

DIRECTION	N	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	NW	NNW	V	C	NR
%FREQUENCY	7.0	0.3	0.0	0.0	0.0	0.1	0.1	1.5	8.6	14.1	9.1	5.8	6.2	4.7	3.9	9.3	3.4	10.9	15.1
AV. VELOCITY	8.5	7.5	0.0	0.0	0.0	4.0	3.0	5.7	8.9	11.3	9.7	9.3	10.6	10.6	8.0	11.3	5.8	0.4	

SARNIA AIR POLLUTION SURVEY

MET. DATA WIND DIRECTION UNITS

STATION RIVERFRONT: IOEL MONTH JUN 1984

HOUR DAY	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	MEAN
1	WSW	WSW	WNW	NNE	N	C	C	C	WSW	NNE	C	SW	N	N	NNE	NNE	NNE	NNE	NNE	NNE	NNE	NNE	NNE	NNE	
2	NNE	NNE	C	NNE	C	N	N	C	N	NNE	SSE	SE	SE	SSE	SSE	SE	SE	SE	SE	SE	SE	SSE	NNE	NNE	
3	C	W	WNW	NW	WNW	WNW	WNW	WNW	WNW	WNW	WNW	WNW	NW	NW	N	N	N	NNE	SW	WSW	SW	SW	SW	SW	
4	SW	SW	SW	SW	SW	SW	SW	SW	SW	SW	SW	SW	SW	SSW	S	S	S	SSW	SSW	S	S	SSE	SSE	SSE	
5	S	SSE	SSE	SSE	SSE	SSE	SSE	SSW	S	SE	SE	SSE	SSE	S	SSE	SSE	SSE	SE	SSE	SSE	SSE	SSE	SSE	SSE	
6	S	S	S	S	SSW	SSW	SSW	SSW	SSW	SSW	SSW	SSW	S	S	SW	NNE	S	SSE	SSE	SSE	S	SSE	SSE	SSE	
7	SSE	SSE	S	S	S	S	SSW	SSW	S	SSW	S	SSE	S	S	S	S	S	S	S	SSW	S	S	S	SSE	
8	SSE	SSE	SSE	S	S	S	S	S	S	S	S	S	SSW	S	S	S	S	S	SSW	S	S	SSW	SSW	SSW	
9	SSW	SSW	SSW	SSW	SSW	SSW	SSW	SSW	SW	WSW	SW	SW	N	NNE	NNE	NNE	NNE	N	NNE	NNE	NNE	N	N	N	
10	NNE	NNE	SSW	SSW	SSW	S	S	S	S	S	S	S	S	S	SSW	SSW	SW	WSW	WSW	WSW	WSW	WSW	SW	WSW	
11	W	W	W	W	W	W	WNW	NW	NNW	N	N	N	N	N	N	N	N	N	N	N	N	NNE	SSE	SSE	
12	SSE	S	S	S	SSE	SSE	SSE	SSE	S	S	S	S	S	S	S	S	S	S	SSE	SSE	SSE	S	S	SSW	
13	SSW	SSW	SSW	SSW	SSW	NNE	SSW	C	N	N	N	N	N	N	N	WSW	WSW	WSW	WSW	S	NNE	SSW	SSW	SW	
14	W	NNW	NNW	N	N	NNW	NW	NW	NNW	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	
15	N	NNE	NNE	NNE	NNE	NNE	NNE	N	N	N	N	N	N	N	N	N	N	N	NE	NNE	NNE	NNE	N	SSE	
16	SSE	SSE	SE	NE	ENE	ENE	NE	E	E	ESE	SSE	SSE	S	S	SSW	SSW	SSW	SSW	S	S	SSE	SSE	S	SSE	
17	SSE	ESE	ESE	SE	ESE	N	N	E	N	N	ESE	SE	SSE	SSE	SSE	SSE	SSE	SSE	SSE	SSE	NNE	N	SSW	SSW	
18	SSW	SSW	SSW	S	SSW	S	SSW	S	SSW	SSW	SW	WSW	W	W	W	W	W	WNW	NW	N	NNW	C	C	C	
19	C	C	NNE	C	C	C	C	WNW	NW	NNE	NE	NE	NNE	NE	NNE	NNE	NNE	NNE	NNE	N	N	N	N	N	
20	N	N	N	N	N	N	N	N	NNE	NNE	NE	NNE	NE	NE	NE	NE	NE	NE	NE	NNE	NNE	NNE	NNE	NE	
21	C	WNW	C	C	C	WNW	NNW	NNW	NNW	N	NNE	NNE	NNE	NNE	NNE	NNE	NNE	NNE	NNE	NNE	N	NNE	N	NNE	
22	NE	N	NE	C	C	NNE	NE	E	E	E	ESE	E	ESE	E	ENE	E	E	E	NE	NE	NE	NE	ENE	E	
23	E	E	ENE	NE	NNE	NE	ENE	E	E	ESE	SE	SE	SE	SE	SSE	SSE	SE	SSE	SSE	ESE	SE	SSE	SSE	S	
24	SSW	SSW	SW	WSW	SW	WSW	SW	SW	WSW	W	W	WSW	WSW	W	W	W	W	W	W	WSW	SW	NNE	WNW	W	
25	W	W	W	W	W	W	W	WNW	WNW	WNW	WNW	WNW	WNW	NW	NNE	NNE	N	N	N	NNE	NE	NNE	N	NNE	
26	C	C	C	C	C	SSW	SSW	SSW	SSW	SW	SW	SW	SSW	SSW	S	S	S	S	SSE	SSE	SSE	SSE	SSE	SSE	
27	SE	SSE	SSE	S	SSE	S	S	S	S	SSW	SSW	WSW	WSW	WSW	WSW	WSW	WSW	WSW	WSW	WSW	WSW	WSW	WSW	WSW	
28	SW	SW	SSW	SW	WSW	WSW	SW	WSW	WSW	WSW	W	WSW	W	W	W	W	WNW	NNW	N	NNE	NNE	NNE	NNE	NNE	
29	NNE	N	N	N	N	NNW	N	NNE	NNE	NNE	NNE	NNE	NNE	NNE	NNE	NNE	NNE	NNE	NNE	NNE	N	NNE	NNE	NNE	
30	NNE	NNE	NNE	NNE	NNE	NNE	NNE	N	N	N	N	N	N	NNE	NNE	N	N	N	N	N	N	N	N	N	

PERCENTAGE OF DATA VALID 100.0

WIND VELOCITY AND DIRECTION DISTRIBUTIO

DIRECTION	N	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	NW	NNW	V	C	NR
%FREQUENCY	15.6	15.0	3.5	0.8	2.2	1.2	2.9	11.0	12.6	9.3	5.4	5.7	4.7	3.2	1.2	1.5	0.0	4.0	0.0
AV. VELOCITY	13.8	12.9	11.9	9.8	11.8	11.4	11.0	11.3	14.7	10.5	9.8	13.4	13.6	13.0	14.0	15.0	0.0	0.5	

SARNIA AIR POLLUTION SURVEY

MET. DATA WIND DIRECTION UNITS

STATION RIVERFRONT: IOEL MONTH JUL 1984

HOUR DAY	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	MEAN
1	N	N	N	N	N	N	NNW	N	N	N	N	N	N	N	N	N	N	N	N	N	N	C	C	NNE	
2	C	C	C	C	C	C	C	C	SSW	SSW	SSW	SSW	SSW	WSW	SW	NNE	N	SE	SSE	SSE	SSE	SSE	S	S	
3	S	S	SSW	SSW	SSW	SSW	SW	SW	SW	SW	SW	SSW	SSW	SSW	SSW	SSW	SSW	SW	SW	SW	SSW	SSW	SSW	SW	
4	NNE	SW	SW	SW	SW	SW	SW	WSW	WSW	NNE	WSW	WSW	WSW	WSW	NNE	N	NNE	NNE	NNE	C	SSW	S	S	SSW	
5	SSW	SSW	S	S	SSW	S	SSW	C	NNE	NNW	NNW	NNW	N	N	NNW	NNE	SW	SSW	SSW	SSW	SSW	S	S	S	
6	S	S	NNE	NNE	S	NNE	NW	NNE	SSE	SSW	SSW	WSW	WSW	WSW	WSW	W	W	WNW	WNW	NW	NW	WNW	WNW	W	
7	W	W	W	W	WSW	WSW	WSW	W	WNW	WNW	WNW	WNW	WNW	WNW	W	W	W	W	WNW	WNW	W	W	WSW	WSW	
8	WSW	C	C	NNE	C	C	C	NNE	C	NNE	C	C	WSW	NNE	NNE	SW	SSW	S	SSE	S	SSE	SSE	SSE	SSE	
9	S	SSE	S	SSE	SSE	SSE	SSE	SSE	S	S	S	S	SSE	S	S	S	S	S	S	SSE	S	SSE	SSE	SSE	
10	SSE	SSE	SSE	S	S	S	NNE	NNE	SSW	SW	SW	SW	WSW	WSW	SW	N	NNE	NNE	NNE	NNE	NNE	N	ESE	SSE	
11	NNE	W	WSW	SW	SW	SW	SW	SW	SW	SW	N	N	NNW	NNW	NW	NW	NW	W	W	W	W	WSW	C	W	
12	C	W	W	W	W	W	W	WSW	SW	SW	SW	SW	W	W	W	W	NW	NNW	N	N	N	C	NNE	C	
13	NNE	WSW	WSW	C	C	C	NNE	SW	SW	SW	WSW	WSW	SW	SW	SSW	S	S	S	S	SSE	SSE	S	S	S	
14	S	SSW	SSW	SSW	SSW	SSW	SSW	SSW	SSW	SSW	SSW	SW	SW	SSW	SSW	SSW	S	S	S	S	SSW	S	S	S	
15	S	SSW	SSW	S	S	S	S	SSW	SSW	S	S	SSW	S	S	SSW	SSW	SW	WSW	W	WSW	W	WSW	W	WSW	
16	WSW	WSW	WSW	WSW	WSW	WSW	WSW	W	W	W	W	W	W	WNW	W	W	W	W	W	NNE	NNE	WNW	C	C	
17	NNE	SSW	S	S	SSW	SSW	S	S	S	S	SSW	S	S	SSW	S	NNE	WSW	NNE	NNE	SSW	SW	WSW	WSW	WSW	
18	WSW	WSW	WSW	WSW	WSW	WSW	W	W	WNW	WNW	WNW	WNW	NNW	N	N	N	N	N	N	N	C	NNE	WSW	SSW	
19	SW	SW	SW	SW	SW	SW	SW	WSW	WSW	WSW	WSW	W	WSW	SW	SW	SSW	SSW	S	S	S	S	SSW	S	S	
20	S	S	S	S	S	S	SSW	SSW	SSW	SSW	SSW	SW	SSW	S	S	S	S	S	S	S	S	NNE	C	SSW	
21	SW	NNE	SSW	SSW	SSW	SSW	C	NNE	N	N	N	N	N	N	N	N	N	N	N	NNE	NE	NNE	N	N	
22	N	NNE	N	C	C	C	NNE	NNE	SW	SW	SW	SSW	SSW	SSW	SSW	S	SSE	SSE	SSE	SSE	SSE	SSE	S	S	
23	S	S	S	S	SSW	S	SSW	SSW	S	SSW	SSW	SSW	SSW	SSW	SW	W	WSW	WSW	W	WNW	WSW	SW	W	NW	
24	N	N	N	NNW	WNW	WNW	W	WNW	WNW	NW	N	N	N	N	N	N	N	N	N	N	NNE	NNE	NNE	NNE	
25	NNE	NNE	N	C	C	NW	NW	NNW	N	N	NNE	NNE	NNE	N	N	NNE	N	NNE	NE	NE	ENE	E	SSE	SE	
26	SE	SE	SSE	SSE	S	SSE	SSE	S	SSE	SSE	S	S	NNE	NNE	ESE	N	NE	ENE	N	SE	SE	S	C	W	
27	NNE	WNW	WNW	NW	NW	NW	C	NW	NNW	N	N	NNE	NNE	N	N	N	N	N	N	N	N	N	N	N	
28	NNE	NNE	NNE	NNE	N	NW	NW	NNW	N	N	N	N	N	N	N	N	N	N	N	N	N	NNE	NNW	NW	
29	WNW	NW	NW	NNW	C	N	N	N	N	N	N	N	N	N	N	N	N	N	NNE	NNE	NNE	C	C	C	
30	NNE	SSW	SW	C	SW	SW	SW	NNE	SW	SW	SW	NNE	NNE	WSW	NNE	S	SSW	SSE	SSE	S	SSE	SSE	S	S	
31	S	S	S	S	SSW	SSW	SW	SW	SW	SW	SW	SW	SW	SSW	SSW	S	S	SSE	S	S	S	S	S	S	

PERCENTAGE OF DATA VALID 100.0

WIND VELOCITY AND DIRECTION DISTRIBUTIO

DIRECTION	N	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	NW	NNW	V	C	NR
%FREQUENCY	15.3	9.9	0.5	0.3	0.1	0.3	0.8	6.0	15.6	12.5	9.7	7.8	7.0	3.5	2.7	2.0	0.0	5.9	0.0
AV. VELOCITY	15.4	8.9	7.0	6.0	14.0	12.0	8.8	10.7	11.5	10.9	8.8	9.0	11.5	10.9	8.6	9.6	0.0	0.2	

POLLUTANT = WIND DIRECTION 1 BELOW 75 FT UNITS = DEGREES

STATION - SW NO 10024 GRAND BEND AIRPORT HWY 81 MONTH - JUN 84

HOUR DAY	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	MEAN
1	324	346	330	321	317	332	300	328	315	312	315	319	313	329	329	325	337	342	346	344	344	49	77	71	
2	89	89	105	188	217	134	133	126	121	151	122	142	152	174	171	173	190	190	172	149	148	153	146	16	
3	121	188	257	310	312	307	311	309	318	316	319	324	327	330	300	289	269	255	230	206	194	208	210	214	
4	209	242	238	201	189	160	186	246	255	252	254	255	262	274	286	287	283	256	214	167	152	153	146	160	
5	164	149	164	156	155	174	177	179	206	183	129	136	157	177	180	179	170	171	171	171	177	182	183	183	
6	184	185	193	193	200	209	215	225	249	255	268	264	245	198	237	116	139	127	161	166	167	178	178	178	
7	174	177	172	172	155	179	189	214	221	213	198	198	202	203	205	211	215	204	177	176	175	175	176	179	
8	187	186	175	180	179	185	195	****	201	208	219	219	219	216	217	216	213	214	215	215	211	212	207	214	
9	221	227	235	256	268	275	275	292	327	331	334	11	13	321	335	277	16	67	92	109	124	130	156	172	
10	176	191	199	204	206	212	217	218	218	216	211	216	215	221	265	261	265	284	257	227	183	260	274	280	
11	271	277	290	341	337	333	338	334	335	337	337	333	333	338	345	346	67	133	121	184	115	102	151	137	
12	142	138	159	167	172	176	177	184	184	185	189	192	199	197	181	177	174	174	178	189	189	189	191	233	
13	255	247	305	318	194	176	255	327	327	318	246	285	283	326	311	268	321	309	276	243	265	346	327	334	
14	333	325	331	330	334	335	335	****	****	337	337	337	333	325	320	328	335	336	341	341	342	342	40	29	
15	34	12	22	41	18	19	82	83	83	233	301	315	316	329	334	337	343	344	345	345	352	112	146	154	
16	125	180	120	118	109	108	114	123	139	139	175	174	167	171	189	180	341	328	167	164	156	174	167	165	
17	164	130	122	130	155	153	148	151	156	153	161	171	180	181	186	185	176	171	158	171	149	164	164	171	
18	170	171	183	214	214	238	195	218	224	238	252	271	277	292	287	299	343	346	340	339	332	86	304	340	
19	324	327	333	274	293	241	276	333	333	327	327	327	334	331	336	341	342	343	345	343	9	265	331	255	
20	5	10	83	73	91	97	114	123	111	****	-	52	55	337	337	337	339	341	343	343	343	343	164	179	
21	183	142	155	104	91	45	86	86	101	123	123	58	327	328	328	332	334	334	333	337	340	342	336	319	
22	127	133	149	110	81	107	111	104	113	113	115	141	135	125	130	121	114	114	117	114	97	103	111	112	
23	112	107	107	107	107	108	122	118	118	120	130	130	139	126	146	167	173	169	159	159	156	141	149	140	
24	157	177	204	230	243	243	244	248	248	257	285	294	302	302	302	297	284	275	267	267	289	324	223	221	
25	287	224	196	232	235	257	292	298	279	282	286	294	294	330	330	330	340	340	337	330	312	314	14	74	
26	146	181	108	124	105	161	134	133	202	206	205	247	274	281	284	282	209	204	197	182	164	156	161	164	
27	171	171	175	185	184	184	199	203	203	202	202	215	255	259	259	261	261	258	255	262	263	260	260	269	
28	266	239	224	233	269	279	258	264	269	264	281	268	264	269	286	343	331	340	340	340	335	340	36	56	
29	62	54	61	21	49	37	44	44	36	327	334	334	335	334	335	334	337	338	343	343	343	344	343	11	
30	11	17	17	16	16	343	343	33	33	330	331	333	333	339	339	339	338	338	341	341	338	338	339	30	

PERCENTAGE OF DATA VALID - 99.3 PERCENTAGE OF DATA INVALID - 0.6 PERCENTAGE OF DATA UNAVAILABLE - 0.1

NOTES 1. "*****" INDICATES INVALID DATA DUE TO INSTRUMENTATION FAILURE

2. "-" INDICATES DATA IS UNAVAILABLE

3. "*****" INDICATES LESS THAN 2/3 VALID DATA FOR DAILY MEAN IN ONE DAY

4. "DATA UNAVAILABLE" AND "DATA INVALID" ARE USED INTERCHANGEABLY FOR PRE-1976 DATA

ONTARIO MINISTRY OF THE ENVIRONMENT - AIR RESOURCES BRANCH NOV 02, 1994

POLLUTANT - WIND DIRECTION 1 BELOW 75 FT UNITS - DEGREES

STATION - SW NO 10024 GRAND BEND AIRPORT HWY 81 MONTH - JUL 94

HOUR DAY	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	MEAN
1	38	181	0	0	0	0	0	0	37	308	308	308	315	319	321	340	336	337	340	340	308	312	0	269	
2	169	262	298	0	98	0	152	152	274	294	177	197	201	299	321	293	271	290	308	281	192	201	188	180	
3	174	172	146	164	143	155	183	224	258	269	264	260	261	253	227	221	222	218	212	193	189	177	188	193	
4	239	239	256	181	205	230	258	268	280	284	289	315	329	329	331	332	341	341	341	178	166	161	171	172	
5	183	89	173	130	137	145	147	169	178	158	300	230	306	311	311	252	192	120	130	133	173	175	174	174	
6	204	183	179	177	180	171	151	330	164	149	186	203	219	253	253	249	247	273	290	317	317	310	299	292	
7	281	281	279	277	277	273	267	270	272	272	273	281	302	310	294	300	302	301	326	28	48	110	115	114	
8	129	121	138	193	176	152	148	193	220	279	279	292	282	294	293	286	290	299	326	67	142	180	180	180	
9	179	178	167	164	167	158	160	164	181	181	183	195	196	180	189	186	186	199	198	177	177	211	203	183	
10	189	189	176	171	186	173	197	40	208	226	225	244	268	309	307	319	334	331	332	331	38	153	161	145	
11	164	229	254	205	207	222	243	253	310	311	326	332	330	330	317	332	333	320	309	266	19	68	177	177	
12	99	186	238	180	86	236	185	218	216	204	243	243	258	267	278	288	318	350	346	325	344	201	168	146	
13	139	79	174	142	171	184	160	179	211	252	269	298	278	274	261	268	211	206	206	206	192	185	183	183	
14	179	185	176	172	175	179	187	203	223	255	258	259	271	260	227	232	221	213	200	197	177	183	179	179	
15	178	186	180	180	189	189	197	211	210	202	210	225	213	206	218	223	227	219	275	285	268	264	277	246	
16	239	245	252	254	257	264	265	265	267	269	264	265	271	280	282	289	294	293	299	310	272	154	168	164	
17	183	156	177	173	167	172	190	179	191	202	208	202	206	196	203	320	178	201	183	196	189	205	219	190	
18	199	216	199	213	196	183	268	292	77	343	331	335	328	327	327	329	328	331	329	305	189	178	206	179	
19	196	186	204	221	225	218	236	274	266	272	262	274	283	282	261	270	218	205	211	188	191	194	189	196	
20	189	188	180	173	183	188	199	227	211	224	230	234	232	239	234	211	206	193	178	186	319	254	199	182	
21	193	174	148	121	157	117	154	111	78	85	146	324	324	333	337	337	337	333	344	17	334	166	95	170	
22	64	218	127	106	110	123	157	215	208	233	319	329	193	217	187	182	186	171	167	167	171	180	171	171	
23	176	177	189	194	198	202	202	206	215	214	219	210	221	224	229	251	275	263	259	257	262	277	330	330	
24	330	324	327	319	311	325	318	321	324	320	320	324	318	321	326	325	336	337	336	18	39	16	338	115	
25	85	172	141	158	92	123	124	152	157	103	323	310	317	321	328	334	337	340	346	39	116	165	124	181	
26	141	131	147	95	110	126	114	146	155	145	127	153	140	152	190	227	225	200	200	171	155	160	128	327	
27	45	47	322	54	328	36	74	66	45	30	22	328	332	329	330	333	336	338	332	211	8	346	340	49	
28	180	81	145	173	155	120	59	12	327	307	318	327	329	332	342	338	340	338	326	9	17	52	302	106	
29	52	331	55	67	73	88	80	91	60	318	300	307	313	316	320	315	324	316	302	10	139	108	63	71	
30	161	100	136	127	139	124	167	177	252	260	288	278	299	286	299	307	291	14	98	174	164	154	177	156	
31	165	156	149	158	147	9	200	207	202	229	267	274	228	238	238	223	196	186	177	177	183	199	225	212	

PERCENTAGE OF DATA VALID =100.0 PERCENTAGE OF DATA INVALID = 0.0 PERCENTAGE OF DATA UNAVAILABLE = 0.0

NOTES 1. "*****" INDICATES INVALID DATA DUE TO INSTRUMENTATION FAILURE

2. "-" INDICATES DATA IS UNAVAILABLE

3. "*****" INDICATES LESS THAN 2/3 VALID DATA FOR DAILY MEAN IN ONE DAY

4. "DATA UNAVAILABLE" AND "DATA INVALID" ARE USED INTERCHANGEABLY FOR PRE-1976 DATA

ONTARIO MINISTRY OF THE ENVIRONMENT - AIR RESOURCES BRANCH AUG 01, 1984

POLLUTANT - WIND DIRECTION 1 BELOW 75 FT UNITS - DEGREES

STATION - SW NO 14016 OPPOSITE LAMBTON GS HWY40 COURTRIGHT MONTH - JUN 84

HOUR DAY	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	MEAN
1	196	206	230	175	107	201	177	176	284	****	179	****	184	190	206	191	25	197	37	16	1	14	9	11	
2	14	355	6	19	322	24	52	171	191	179	166	171	175	167	162	158	161	156	157	162	152	178	194	245	
3	307	318	321	324	314	305	305	307	325	314	308	316	338	338	324	315	330	310	238	180	175	187	216	230	
4	226	197	215	211	184	187	184	200	233	232	220	214	207	207	177	168	175	175	179	168	164	165	174	165	
5	****	****	168	173	172	164	-	****	138	-	-	171	173	174	172	172	171	170	178	174	173	-	171	174	
6	176	188	192	195	183	176	183	216	220	220	206	211	215	175	173	-	****	174	166	168	166	169	167	174	
7	176	175	177	180	183	186	179	180	174	182	172	174	188	185	200	193	196	180	190	197	183	183	184	176	
8	179	180	176	179	180	186	192	193	195	194	193	198	203	199	203	202	198	204	198	200	202	199	198	201	
9	203	200	205	202	196	194	190	211	228	232	227	190	177	208	176	172	185	213	7	13	25	357	354	351	
10	****	176	173	186	175	174	178	199	198	200	200	195	199	194	202	204	230	238	229	225	216	228	245	268	
11	276	284	281	289	294	-	315	328	353	344	15	358	8	323	24	1	33	59	65	57	333	173	162	169	
12	175	185	179	179	170	170	170	174	187	188	185	186	170	177	-	172	-	178	179	169	170	171	177	177	
13	185	197	203	200	188	187	175	219	309	292	243	293	212	228	215	215	250	243	209	183	204	245	227	231	
14	260	337	15	3	1	325	319	333	324	2	15	18	15	20	2	12	345	9	357	346	3	355	14	347	
15	349	7	347	35	20	17	33	36	45	48	122	85	332	326	343	9	3	18	38	37	20	39	85	169	
16	123	89	93	54	65	97	80	107	114	146	186	180	184	182	197	199	180	185	180	173	165	164	171	161	
17	153	124	131	135	154	****	****	****	109	57	75	134	170	172	174	****	****	153	167	168	163	45	****	****	
18	****	****	****	****	****	****	****	****	****	****	****	279	289	292	297	286	285	295	342	351	12	13	37	308	
19	217	255	319	187	220	180	262	314	3	****	****	18	45	30	35	29	29	34	33	19	16	12	19	3	
20	8	360	26	17	17	22	27	42	70	49	36	31	346	347	1	2	22	1	8	3	28	31	22	22	
21	360	350	1	-	358	15	16	33	78	99	149	160	85	338	2	36	38	33	34	24	10	51	19	27	
22	11	26	345	350	9	25	51	75	92	110	129	126	126	126	103	123	149	115	106	68	100	93	110	111	
23	114	112	117	87	73	61	105	104	122	135	159	168	174	178	177	174	196	174	166	161	111	122	156	194	
24	213	223	239	236	223	233	235	258	****	292	274	270	276	286	****	293	287	286	276	256	243	249	271	298	
25	271	239	241	276	254	271	294	315	300	306	309	301	311	314	315	330	352	10	18	33	34	11	12	36	
26	46	46	300	280	272	258	205	212	241	226	215	211	200	215	182	174	183	177	178	177	167	169	171	135	
27	160	185	189	190	190	195	189	193	203	208	216	257	259	257	257	267	260	263	277	261	255	256	251	212	
28	222	223	240	259	260	227	241	245	267	270	259	274	271	292	271	288	297	329	18	33	10	13	8	22	
29	12	19	16	356	347	356	356	23	26	11	20	358	360	3	358	356	13	5	359	1	6	353	353	10	
30	38	20	21	24	8	10	12	34	12	357	353	349	351	345	344	358	7	352	3	14	5	2	356	2	

PERCENTAGE OF DATA VALID - 94.7 PERCENTAGE OF DATA INVALID - 4.0 PERCENTAGE OF DATA UNAVAILABLE - 1.3

NOTES 1. "*****" INDICATES INVALID DATA DUE TO INSTRUMENTATION FAILURE

2. "-" INDICATES DATA IS UNAVAILABLE

3. "******" INDICATES LESS THAN 2/3 VALID DATA FOR DAILY MEAN IN ONE DAY

4. "DATA UNAVAILABLE" AND "DATA INVALID" ARE USED INTERCHANGEABLY FOR PRE-1976 DATA

ONTARIO MINISTRY OF THE ENVIRONMENT - AIR RESOURCES BRANCH AUG 01, 1984

POLLUTANT = WIND DIRECTION 1 BELOW 75 FT UNITS = DEGREES

STATION - SW NO 14016 OPPOSITE LAMBTON GS HWY40 COURTRIGHT MONTH - JUL 84

HOUR DAY	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	MEAN
1	14	5	16	12	359	358	3	349	350	345	344	344	350	359	354	356	358	10	11	1	22	294	265	253	
2	263	260	254	309	128	152	187	179	172	178	178	189	206	178	199	230	213	71	134	175	175	174	174	172	
3	171	175	177	190	194	224	225	209	237	224	211	207	189	199	194	192	201	232	209	180	170	170	217	232	
4	196	200	212	219	206	202	217	285	264	302	190	168	167	190	206	4	41	46	82	157	176	187	191	184	
5	207	195	192	192	247	209	229	305	314	-	239	174	180	194	218	207	207	180	192	202	188	185	197	202	
6	195	187	198	232	174	201	337	197	189	192	201	241	236	193	276	283	292	309	306	325	336	307	287	264	
7	267	259	235	223	233	225	260	287	300	311	312	330	315	323	331	311	274	269	320	300	243	216	192	199	
8	225	211	253	261	303	314	303	315	279	317	290	281	299	314	166	180	174	175	190	185	159	164	162	169	
9	174	168	171	157	154	153	160	174	185	178	180	-	185	185	183	184	190	179	180	176	177	165	156	146	
10	122	171	170	168	183	179	153	179	223	235	248	246	278	258	269	258	210	336	7	39	18	96	152	178	
11	207	290	218	216	226	220	228	221	233	241	273	6	346	347	337	326	324	284	272	246	270	276	292	335	
12	320	7	314	280	235	203	212	232	219	222	198	210	267	292	302	282	297	2	2	341	5	158	330	194	
13	194	187	186	227	227	200	203	229	245	211	233	198	188	176	178	180	185	186	176	183	170	165	170	174	
14	179	203	176	175	176	180	173	183	218	230	230	215	200	185	179	188	200	198	188	184	185	177	188	173	
15	179	188	174	179	184	190	183	191	195	193	198	198	194	197	201	200	204	220	265	263	281	267	244	219	
16	215	224	238	261	285	288	292	306	269	-	289	285	285	296	305	293	300	301	309	322	238	206	227	3	
17	161	182	174	195	207	194	194	186	194	202	209	196	202	202	192	199	206	205	206	218	****	****	269	265	
18	242	232	251	232	252	262	297	307	305	306	315	313	315	321	344	9	6	5	4	-	90	177	184	194	
19	223	190	206	220	237	258	259	266	263	271	283	274	222	215	210	192	176	180	189	198	201	200	188	186	
20	185	166	174	167	183	182	197	194	207	211	****	205	****	191	189	187	192	198	200	197	197	194	****	185	
21	192	137	172	158	177	205	235	265	273	220	191	185	183	145	348	1	352	7	29	36	31	13	355	20	
22	17	22	22	264	255	237	158	194	-	182	175	166	165	170	166	175	186	187	176	168	165	161	172	169	
23	179	176	179	183	184	182	200	201	206	205	211	203	202	200	199	198	196	-	259	308	****	****	****	****	
24	****	****	****	****	****	****	****	****	****	****	****	357	2	4	10	22	28	15	31	39	19	35	53	30	
25	288	297	319	333	328	330	323	342	326	305	282	302	315	298	1	19	27	46	42	33	57	89	96	126	
26	122	133	160	146	145	135	167	162	169	175	190	187	181	211	237	55	44	50	125	128	134	144	105	4	
27	12	353	343	329	338	324	336	350	352	11	354	349	2	353	358	357	2	9	8	9	2	354	355	332	
28	341	350	-	-	338	340	355	344	358	358	6	359	355	9	359	349	360	358	17	9	25	30	324	312	341
29	330	342	****	347	344	335	346	17	43	1	339	349	342	353	349	16	15	33	49	36	30	8	13	268	
30	226	192	69	20	293	3	238	256	270	294	255	252	192	179	185	186	185	188	196	189	153	166	178	182	
31	173	170	177	197	200	165	172	179	184	179	203	207	209	194	191	178	177	187	193	198	196	188	197	205	

PERCENTAGE OF DATA VALID = 96.2 PERCENTAGE OF DATA INVALID = 2.8 PERCENTAGE OF DATA UNAVAILABLE = 0.9

NOTES 1. "****" INDICATES INVALID DATA DUE TO INSTRUMENTATION FAILURE

2. "-" INDICATES DATA IS UNAVAILABLE

3. "******" INDICATES LESS THAN 2/3 VALID DATA FOR DAILY MEAN IN ONE DAY

4. "DATA UNAVAILABLE" AND "DATA INVALID" ARE USED INTERCHANGEABLY FOR PRE-1976 DATA

ONTARIO MINISTRY OF THE ENVIRONMENT - AIR RESOURCES BRANCH AUG 01, 1984

POLLUTANT - WIND DIRECTION 2-75 = 250 FT UNITS = DEGREES

STATION - SW NO 14016 OPPOSITE LAMBTON GS HWY40 COURTRIGHT MONTH - JUN 84

HOUR DAY	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24 MEAN
1	251	251	276	304	27	343	217	222	313	****	173	****	179	210	203	187	26	201	40	25	9	38	23	15
2	30	21	23	61	360	54	86	143	171	170	155	160	163	154	153	154	147	151	152	149	148	171	190	250
3	291	305	320	319	308	305	306	312	319	308	307	315	327	328	331	315	332	308	250	201	198	212	219	241
4	238	229	235	233	225	226	229	245	247	236	228	220	212	207	176	166	173	176	181	180	170	159	165	161
5	****	****	161	158	156	149	-	****	138	-	-	166	173	176	171	176	174	175	175	173	180	-	178	182
6	186	199	205	203	201	200	199	222	230	225	213	220	225	175	174	-	****	181	164	158	165	168	169	177
7	182	180	179	186	189	200	188	189	186	190	173	174	189	186	199	198	206	182	195	201	189	189	190	180
8	187	180	180	181	185	188	191	198	195	191	197	200	204	210	214	201	204	212	203	206	206	209	209	209
9	211	208	215	217	214	218	204	229	234	243	235	186	182	216	176	176	187	224	11	23	25	1	336	345
10	353	161	186	199	187	180	187	204	208	204	206	205	202	204	207	217	244	251	242	237	238	251	258	271
11	281	283	286	290	292	-	314	335	354	353	14	1	7	358	22	12	33	67	66	86	76	153	158	160
12	159	165	161	152	161	161	164	171	185	186	185	187	175	178	-	174	-	179	182	170	165	176	185	197
13	207	211	222	219	223	220	207	253	301	286	253	286	210	244	226	225	258	254	215	190	212	288	250	239
14	275	323	18	3	359	326	317	332	320	1	17	12	0	21	14	12	6	22	15	355	356	359	18	350
15	348	353	350	39	22	20	35	38	53	57	113	88	339	334	339	3	358	18	36	41	31	48	115	162
16	135	120	105	85	84	96	89	103	114	137	175	175	179	181	202	201	175	189	182	170	158	155	163	149
17	144	119	133	129	139	****	****	****	107	63	85	128	160	162	166	****	****	146	162	162	148	34	****	****
18	****	****	****	****	****	****	****	****	****	****	****	286	281	285	297	285	289	304	343	350	24	36	11	299
19	295	304	319	324	287	259	284	326	358	****	****	17	42	36	29	39	29	33	30	25	17	11	22	15
20	15	12	28	25	26	26	27	44	71	56	49	32	353	347	5	10	20	13	5	16	23	33	25	26
21	358	348	354	-	348	9	23	33	81	102	135	151	81	5	348	23	39	36	35	30	20	29	37	50
22	35	44	25	****	21	55	79	86	91	103	112	116	115	124	106	124	135	112	108	94	101	100	98	108
23	102	111	110	95	90	81	104	104	107	130	152	158	171	172	179	166	199	165	151	151	125	112	144	193
24	229	239	251	249	238	242	247	261	****	289	288	271	279	287	****	295	285	288	278	267	258	260	278	304
25	295	261	257	278	281	282	292	311	296	313	307	302	311	311	312	327	353	19	24	34	35	17	21	45
26	84	54	48	79	324	283	218	223	249	230	214	216	202	210	178	171	179	179	172	176	163	163	163	137
27	155	186	190	192	191	200	197	200	203	211	214	264	264	264	267	266	271	268	280	268	264	258	265	228
28	231	241	248	270	278	261	262	253	267	270	264	279	273	280	275	289	301	327	357	36	24	28	15	18
29	13	23	15	352	338	345	4	21	28	358	8	13	5	358	10	4	12	11	0	4	359	349	349	14
30	25	20	23	29	20	25	29	32	15	12	352	349	3	0	6	4	356	5	13	21	10	0	7	10

PERCENTAGE OF DATA VALID - 94.7 PERCENTAGE OF DATA INVALID - 4.0 PERCENTAGE OF DATA UNAVAILABLE - 1.3

NOTES 1. "****" INDICATES INVALID DATA DUE TO INSTRUMENTATION FAILURE

2. "-" INDICATES DATA IS UNAVAILABLE

3. "*****" INDICATES LESS THAN 2/3 VALID DATA FOR DAILY MEAN IN ONE DAY

4. "DATA UNAVAILABLE" AND "DATA INVALID" ARE USED INTERCHANGEABLY FOR PRE-1976 DATA

ONTARIO MINISTRY OF THE ENVIRONMENT - AIR RESOURCES BRANCH AUG 01, 1984

POLLUTANT - WIND DIRECTION 2 75 - 250 FT UNITS - DEGREES

STATION - SW NO 14016 OPPOSITE LAMBTON GS HWY40 COURTRIGHT MONTH - JUL 84

HOUR DAY	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	MEAN
1	16	17	21	23	348	1	356	355	358	358	350	353	355	355	346	351	9	21	23	359	42	2	306	308	
2	321	330	324	312	32	144	187	173	173	174	170	180	216	174	204	235	213	63	130	163	186	170	183	185	
3	180	196	192	212	224	237	246	232	238	232	218	204	182	202	195	195	203	247	236	196	182	177	226	263	
4	214	214	226	233	219	221	232	287	262	300	172	166	161	193	212	6	38	49	81	146	170	182	203	194	
5	219	218	219	228	244	242	259	315	328	-	235	168	174	195	219	211	206	176	202	210	187	191	198	208	
6	202	190	208	234	179	208	324	195	186	199	****	249	241	195	278	280	291	299	299	325	324	309	288	275	
7	272	272	248	243	252	244	272	287	299	311	313	320	314	314	320	311	281	280	312	304	269	228	191	203	
8	242	265	293	304	305	307	303	325	306	326	312	295	296	297	157	186	177	176	194	182	162	162	163	164	
9	167	164	173	159	153	148	157	173	188	177	181	-	181	187	180	187	189	178	181	172	176	166	151	139	
10	109	161	164	163	181	191	159	172	233	240	254	252	281	266	270	260	226	345	17	51	30	97	133	172	
11	209	293	225	225	239	231	235	234	243	251	290	5	339	346	329	323	317	283	272	256	282	284	297	305	
12	308	327	301	290	263	267	234	245	228	221	206	217	273	294	299	284	297	8	15	320	353	144	164	194	
13	217	225	198	227	277	200	234	258	255	224	232	206	188	185	179	181	188	185	178	173	166	171	187	203	
14	194	217	207	199	206	214	196	198	229	233	242	223	211	192	179	193	208	202	197	189	189	192	205	187	
15	193	201	186	187	193	204	194	200	201	197	201	199	200	203	208	205	211	233	271	275	284	271	256	240	
16	235	234	253	271	286	288	297	300	275	-	287	290	285	293	298	294	296	300	308	315	264	238	252	328	
17	160	185	176	201	217	202	208	192	197	204	216	202	204	206	193	203	214	213	209	221	****	****	278	271	
18	257	249	261	254	261	272	295	298	300	304	313	311	313	320	7	9	1	13	8	-	****	176	179	185	
19	207	202	211	219	239	253	268	270	264	267	285	270	229	213	216	187	173	177	186	203	208	201	191	192	
20	189	177	186	199	192	191	209	199	216	216	****	211	****	192	190	185	193	201	199	204	205	204	****	184	
21	213	149	177	167	174	205	235	280	303	211	184	179	186	160	9	353	2	17	32	38	38	28	355	20	
22	33	32	38	300	258	256	164	207	-	189	166	164	156	163	160	171	183	186	174	169	166	162	171	168	
23	182	179	185	198	198	191	212	206	213	211	216	203	214	206	203	200	199	-	259	303	****	****	****	****	
24	****	****	****	****	****	****	****	****	****	****	****	359	358	8	16	19	36	28	32	36	33	36	39	36	
25	327	307	315	324	327	325	324	335	334	316	312	320	330	304	354	19	32	46	41	38	50	97	99	122	
26	126	135	141	135	135	135	154	153	159	167	186	188	173	209	244	57	50	55	118	126	125	140	100	2	
27	12	344	343	322	322	315	318	336	355	14	1	356	357	6	3	****	354	355	1	344	354	359	357	338	
28	345	340	-	335	335	352	345	354	352	3	354	352	12	357	357	345	12	17	16	26	34	358	318	331	
29	327	338	****	346	337	331	345	28	43	11	355	351	340	351	5	21	23	43	54	41	41	30	26	332	
30	213	211	191	328	313	253	253	275	300	286	284	237	191	175	179	183	181	187	194	184	151	156	169	174	
31	173	178	175	175	172	180	185	173	184	184	212	213	213	195	188	171	174	186	193	198	199	194	205	207	

PERCENTAGE OF DATA VALID = 95.8 PERCENTAGE OF DATA INVALID = 3.2 PERCENTAGE OF DATA UNAVAILABLE = 0.9

NOTES 1. "****" INDICATES INVALID DATA DUE TO INSTRUMENTATION FAILURE

2. "-" INDICATES DATA IS UNAVAILABLE

3. "******" INDICATES LESS THAN 2/3 VALID DATA FOR DAILY MEAN IN ONE DAY

4. "DATA UNAVAILABLE" AND "DATA INVALID" ARE USED INTERCHANGEABLY FOR PRE-1976 DATA

ONTARIO MINISTRY OF THE ENVIRONMENT - AIR RESOURCES BRANCH AUG 01, 1984

POLLUTANT - WIND DIRECTION 3 OVER 250 FT UNITS - DEGREES

STATION - SW NO 14016 OPPOSITE LAMBTON GS HWY40 COURTRIGHT MONTH - JUN 84

HOUR DAY	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	MEAN
1	276	290	302	324	9	21	285	248	295	****	164	****	192	218	223	194	39	218	45	37	32	50	58	53	
2	64	82	103	107	122	122	116	130	154	161	159	157	157	152	149	146	149	136	132	135	139	167	199	256	
3	287	304	318	320	314	309	307	316	323	307	306	323	324	334	330	311	333	315	252	215	207	212	220	236	
4	258	256	272	277	268	277	269	263	259	244	231	225	220	219	188	178	184	187	195	191	182	178	182	178	
5	****	****	188	196	193	185	-	****	152	-	-	168	180	180	176	181	178	180	180	187	203	-	201	203	
6	203	212	213	219	218	219	220	231	231	225	221	225	224	186	187	-	****	192	173	165	173	180	185	195	
7	202	197	199	185	210	211	208	200	199	202	192	****	****	****	****	****	****	****	****	****	****	****	****	****	
8												- DATA INVALID -													
9	****	****	****	238	237	245	240	238	235	249	235	203	193	219	182	188	198	225	25	32	36	38	85	156	
10	204	205	213	213	210	208	207	214	209	211	208	212	207	208	215	220	244	249	248	248	248	260	264	271	
11	283	282	284	288	291	-	315	331	350	3	23	8	18	20	30	25	41	61	73	92	101	153	169	178	
12	182	181	178	174	174	174	172	175	191	190	188	191	183	186	-	183	-	186	182	174	171	176	201	221	
13	224	228	243	249	254	264	247	261	288	255	248	284	222	253	231	231	257	260	225	210	230	275	256	255	
14	282	323	17	****	1	336	319	325	319	1	22	22	18	26	17	13	16	16	6	358	****	12	18	18	
15	27	33	14	42	27	34	44	42	7	49	100	73	18	346	351	13	17	26	46	47	51	72	140	159	
16	150	137	124	109	109	112	105	106	111	141	179	180	189	187	207	208	189	197	187	175	157	157	169	163	
17	152	128	135	133	152	****	****	****	114	69	85	116	157	163	167	****	****	159	173	172	165	42	****	****	
18	****	****	****	****	****	****	****	****	****	****	****	281	284	289	300	281	287	312	340	348	29	39	35	4	
19	326	327	341	18	344	335	331	332	355	****	****	19	45	32	33	41	37	38	38	37	31	30	32	28	
20	26	21	30	33	33	45	50	52	84	63	55	44	13	9	11	23	31	28	27	29	30	41	45	61	
21	88	49	34	-	38	43	55	50	84	111	133	130	106	39	8	34	44	41	40	37	35	45	53	73	
22	90	80	83	70	93	104	97	87	97	102	114	114	123	122	104	119	138	113	109	97	107	107	104	110	
23	111	109	115	104	100	100	110	112	114	130	157	152	173	181	180	172	201	175	155	149	176	138	151	192	
24	244	257	269	259	249	250	254	273	****	283	285	274	279	291	****	291	289	286	278	265	265	266	277	309	
25	307	285	281	288	298	293	299	312	306	315	303	302	307	320	311	329	344	12	28	42	47	39	45	58	
26	70	74	92	114	128	179	215	236	252	235	227	229	215	217	187	184	188	189	183	183	169	170	172	157	
27	176	197	204	201	200	212	208	213	216	220	232	265	256	263	265	267	269	272	281	267	268	265	267	257	
28	255	258	266	274	298	291	286	254	270	271	263	273	274	281	278	286	301	326	352	35	46	52	23	34	
29	38	38	36	39	19	14	17	31	28	10	22	12	15	13	12	8	17	14	18	28	2	355	16	20	
30	31	30	32	35	26	20	32	40	28	14	13	11	11	9	****	8	16	17	19	20	18	20	12	17	

PERCENTAGE OF DATA VALID - 86.9 PERCENTAGE OF DATA INVALID - 9.9 PERCENTAGE OF DATA UNAVAILABLE - 1.3

NOTES 1. "*****" INDICATES INVALID DATA DUE TO INSTRUMENTATION FAILURE

2. "-" INDICATES DATA IS UNAVAILABLE

3. "******" INDICATES LESS THAN 2/3 VALID DATA FOR DAILY MEAN IN ONE DAY

4. "DATA UNAVAILABLE" AND "DATA INVALID" ARE USED INTERCHANGEABLY FOR PRE-1976 DATA

ONTARIO MINISTRY OF THE ENVIRONMENT - AIR RESOURCES BRANCH AUG 01, 1984

POLLUTANT - WIND DIRECTION 3 OVER 250 FT UNITS - DEGREES

STATION - SW NO 14016 OPPOSITE LAMBTON GS HWY40 COURTRIGHT MONTH - JUL 84

HOUR DAY	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	MEAN
1	18	21	23	27	19	20	20	15	13	21	9	15	359	11	1	****	13	25	32	35	45	23	345	267	
2	255	272	275	272	284	262	233	211	206	201	183	194	218	184	208	236	220	80	127	171	191	183	200	214	
3	215	220	219	234	258	268	267	254	244	238	223	213	193	207	205	206	215	251	241	230	225	219	230	264	
4	244	230	237	249	244	241	244	281	259	292	190	180	174	214	218	5	45	57	85	137	161	170	199	210	
5	225	232	240	249	262	273	280	321	331	-	6	179	185	207	225	216	216	201	210	218	210	215	218	220	
6	217	210	224	235	199	227	333	246	205	208	215	255	257	215	279	290	288	298	305	331	318	311	295	284	
7	284	282	273	271	278	274	275	284	294	305	312	320	309	316	327	304	284	282	318	313	292	279	272	252	
8	264	285	315	316	318	316	307	313	309	324	327	292	312	300	166	194	183	187	199	189	172	165	165	165	
9	171	179	181	179	173	169	167	184	192	187	192	-	187	190	190	194	198	188	190	176	185	189	177	159	
10	130	168	171	176	188	219	291	210	240	244	256	261	279	263	267	259	233	340	32	58	43	90	135	193	
11	226	289	242	237	246	243	250	248	254	259	276	5	349	354	334	323	324	292	275	271	295	302	302	309	
12	310	309	301	295	294	290	275	263	236	237	219	229	278	293	302	284	300	8	3	315	339	332	315	290	
13	272	250	261	279	283	283	296	260	260	229	243	221	210	200	188	188	196	191	183	175	191	214	229	229	
14	220	228	228	236	241	247	235	223	239	243	245	227	221	197	190	205	210	208	203	198	199	200	209	207	
15	214	222	215	217	215	221	214	211	213	208	213	210	208	214	219	214	218	240	267	276	284	275	269	259	
16	252	254	263	274	288	292	293	298	277	-	288	287	278	289	297	291	293	299	310	310	287	269	271	298	
17	305	230	226	226	228	224	222	211	205	212	221	218	214	213	203	210	216	224	217	230	****	****	282	278	
18	273	277	282	283	281	286	299	302	302	306	310	313	318	327	356	16	16	15	14	-	29	83	188	204	
19	221	228	226	226	261	279	273	279	276	274	288	274	229	219	228	197	183	186	197	208	214	213	209	214	
20	211	212	217	226	223	219	225	219	221	220	****	222	****	203	197	197	202	208	206	211	214	214	****	222	
21	247	216	225	218	217	225	255	281	320	210	200	202	204	44	15	15	14	28	41	44	57	65	48	55	
22	55	63	82	98	174	206	205	226	-	213	179	174	168	173	169	183	194	193	185	180	180	178	181	186	
23	190	208	212	216	218	219	221	224	225	230	225	221	219	217	211	210	215	-	268	305	****	****	****	****	
24	****	****	****	****	****	****	****	****	****	****	****	18	11	5	14	29	37	31	36	38	40	36	37	34	
25	28	17	12	347	343	335	334	341	4	341	325	335	345	321	9	30	39	44	46	46	64	96	101	112	
26	133	142	148	148	156	159	168	175	166	172	198	200	189	211	233	71	57	64	115	130	132	136	108	65	
27	32	357	349	334	332	324	326	346	5	25	15	7	360	21	11	15	12	12	9	****	1	12	21	15	
28	13	21	-	30	****	7	8	14	****	10	****	****	24	****	****	****	17	23	25	31	35	25	20	12	
29	18	23	****	19	31	37	38	40	44	23	14	14	2	1	10	21	****	46	60	49	48	45	46	52	
30	146	212	204	196	210	224	241	270	291	283	296	236	197	181	192	184	185	194	199	190	167	177	185	203	
31	213	217	220	218	220	221	232	217	208	207	214	225	214	204	198	186	185	196	204	****	209	209	214	217	

PERCENTAGE OF DATA VALID = 94.8 PERCENTAGE OF DATA INVALID = 4.3 PERCENTAGE OF DATA UNAVAILABLE = 0.9

NOTES 1. "*****" INDICATES INVALID DATA DUE TO INSTRUMENTATION FAILURE

2. "-" INDICATES DATA IS UNAVAILABLE

3. "*****" INDICATES LESS THAN 2/3 VALID DATA FOR DAILY MEAN IN ONE DAY

4. "DATA UNAVAILABLE" AND "DATA INVALID" ARE USED INTERCHANGEABLY FOR PRE-1976 DATA

POLLUTANT - WIND DIRECTION (10 FT) UNITS - DEGREES

STATION - SW ND 14002 240 INDIAN ROAD SOUTH, SARNIA MONTH - JUL 84

HOUR / DAY	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	MEAN
1	16	16	20	14	2	6	16	25	16	8	1	19	25	30	22	29	46	56	43	34	37	0	0	0	
2	0	0	0	0	0	0	0	0	248	246	254	192	270	221	310	0	128	79	163	191	214	197	211	224	
3	0	232	239	246	235	261	292	270	281	274	271	270	253	253	242	254	222	281	280	280	276	208	220	363	
4	296	284	241	295	206	284	275	284	300	239	0	0	272	4	64	6	26	96	110	110	178	212	260	245	
5	252	258	208	276	266	280	261	307	359	86	106	115	24	16	0	253	229	228	229	228	211	216	234	223	
6	227	224	300	178	217	336	317	155	208	208	253	295	270	289	310	313	316	312	316	310	294	293	282	270	
7	275	275	265	256	272	269	282	295	306	304	302	299	300	266	275	267	295	301	304	292	0	0	0	0	
8	0	0	0	0	0	0	289	293	305	307	272	294	324	0	56	166	191	192	176	164	163	158	142	162	
9	160	172	170	166	149	154	163	173	166	187	179	167	172	174	187	196	179	178	166	155	181	143	142	227	
10	154	154	172	170	187	206	92	219	240	252	228	245	256	246	304	37	347	6	34	50	61	150	119	172	
11	266	245	222	241	248	258	257	252	266	322	341	348	326	326	319	325	300	277	266	280	292	299	294	312	
12	287	276	277	280	274	272	266	245	245	222	260	264	282	313	306	266	346	0	90	356	0	0	0	0	
13	0	0	0	0	0	287	279	270	258	256	271	298	301	257	205	214	199	190	188	178	200	202	200	216	
14	212	217	232	226	220	272	272	235	262	259	274	242	220	209	223	208	211	199	199	199	215	202	198	187	
15	192	193	187	197	207	259	207	206	206	214	218	206	206	221	220	211	209	308	272	264	270	270	253	260	
16	272	264	278	276	284	289	296	276	294	301	296	306	306	304	277	307	306	299	290	299	280	0	0	0	
17	192	193	196	222	217	216	215	213	214	222	-	-	-	-	-	-	-	-	-	-	-	-	-	****	
18	- DATA UNAVAILABLE -																								
19	- DATA UNAVAILABLE -																								
20	- DATA UNAVAILABLE -																								
21	- DATA UNAVAILABLE -																								
22	- DATA UNAVAILABLE -																								
23	- DATA UNAVAILABLE -																								
24	- DATA UNAVAILABLE -																								
25	- DATA UNAVAILABLE -																								
26	- DATA UNAVAILABLE -																								
27	- DATA UNAVAILABLE -																								
28	- DATA UNAVAILABLE -																								
29	- DATA UNAVAILABLE -																								
30	- DATA UNAVAILABLE -																								
31	- DATA UNAVAILABLE -																								

PERCENTAGE OF DATA VALID - 53.0 PERCENTAGE OF DATA INVALID - 0.0 PERCENTAGE OF DATA UNAVAILABLE - 47.0

NOTES 1. "****" INDICATES INVALID DATA DUE TO INSTRUMENTATION FAILURE.

2. "-" INDICATES DATA IS UNAVAILABLE

3. "******" INDICATES LESS THAN 273 VALID DATA FOR DAILY MEAN IN ONE DAY

4. "DATA UNAVAILABLE" AND "DATA INVALID" ARE USED INTERCHANGEABLY FOR PRE-1976 DATA

ONTARIO MINISTRY OF THE ENVIRONMENT - AIR RESOURCES BRANCH DEC 04, 1984

PARAMETER - WIND DIRECTION (TENS OF ...) UNITS - DEGREES

STATION - SW ON 14052 247 INDIAN ROAD SOUTH, SARNIA MONTH - JUN 84

HOUR / DAY	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	MEAN
1	278	306	295	2	300	0	108	0	0	84	127	26	43	17	52	40	35	38	23	30	17	348	337	13	
2	0	0	0	0	0	0	131	116	132	166	151	121	162	140	152	138	144	124	130	122	134	221	204	22	
3	283	304	300	286	288	286	300	307	296	296	304	319	334	348	324	322	305	251	234	229	215	215	218	254	
4	265	234	254	235	248	241	253	245	247	259	244	214	205	221	191	180	200	190	186	167	173	162	174	182	
5	162	151	172	156	156	162	167	236	113	104	144	139	****	140	140	144	130	136	137	136	150	162	176	176	
6	160	197	197	187	197	196	210	225	236	215	203	206	220	180	275	156	170	163	167	166	167	173	187	190	
7	193	197	191	214	208	214	217	194	212	212	197	204	202	190	200	199	206	181	190	192	178	191	173	160	
8	176	178	166	188	187	187	193	182	187	198	205	209	209	205	192	202	196	208	196	210	200	199	198	199	
9	197	210	230	236	247	247	239	234	302	264	251	202	352	54	338	156	325	359	346	13	346	316	332	0	
10	0	0	143	192	162	175	192	146	204	205	200	199	210	209	212	226	264	292	267	287	304	290	287	300	
11	305	304	311	322	322	347	349	4	24	64	78	49	56	37	52	44	46	2	354	0	0	0	0	0	
12	198	216	193	193	199	190	199	199	222	206	210	209	233	234	222	224	206	205	178	190	197	215	204	222	
13	0	10	214	259	284	295	340	340	26	28	13	08	43	125	2	269	302	292	247	257	197	277	300	314	
14	341	0	0	6	331	330	346	347	37	52	26	26	22	19	19	19	12	13	8	2	353	5	29	31	
15	55	25	46	26	40	44	47	11	10	14	13	22	6	22	22	44	46	55	55	31	59	0	0	160	
16	0	119	0	0	134	78	119	148	142	150	211	214	146	169	186	232	216	210	197	162	166	179	184	140	
17	150	140	139	133	125	142	65	150	149	137	140	149	163	174	160	150	178	175	175	185	332	191	228	220	
18	205	187	206	242	0	96	220	256	214	236	274	294	317	306	290	307	317	299	23	30	0	0	0	0	
19	0	312	319	326	328	319	42	44	-	-	-	-	****	****	35	38	31	29	41	32	24	353	359	5	
20	2	14	10	19	28	40	37	329	106	95	325	346	345	336	338	17	16	28	14	18	8	16	356	0	
21	319	325	0	0	0	0	353	2	52	41	139	16	31	37	31	36	31	40	25	42	30	31	11	0	
22	0	0	0	0	0	0	0	60	65	66	134	112	133	116	131	110	101	106	90	101	101	82	97	115	
23	125	95	90	125	83	90	122	103	126	90	116	151	137	113	134	186	128	132	106	115	104	134	173	176	
24	228	233	251	253	253	253	253	253	252	282	269	262	275	296	298	296	296	300	281	282	268	278	347	266	
25	299	299	283	263	300	301	316	301	328	326	318	323	316	342	26	36	91	20	68	70	58	62	56	0	
26	0	0	0	0	0	0	241	234	226	239	289	234	222	230	239	233	208	209	192	186	178	178	172	176	
27	185	176	185	204	197	216	216	210	216	224	226	234	281	296	298	287	286	288	287	293	287	281	295	296	
28	296	251	276	289	289	292	290	266	296	310	280	284	306	313	300	304	335	340	79	67	64	64	53	53	
29	67	70	68	56	35	46	53	53	52	32	4	16	43	42	41	30	44	29	35	37	43	38	36	42	
30	46	50	49	54	71	58	60	61	14	35	26	24	28	18	31	18	12	22	10	11	26	29	30	26	

PERCENTAGE OF DATA VALID - 99.0 PERCENTAGE OF DATA INVALID - 0.4 PERCENTAGE OF DATA UNAVAILABLE - 0.6

NOTE : 1. "*****" INDICATES INVALID DATA DUE TO INSTRUMENTATION FAILURE

2. "-" INDICATES DATA IS UNAVAILABLE

3. "******" INDICATES LESS THAN 273 VALID DATA FOR DAILY MEAN IN ONE DAY

4. "DATA UNAVAILABLE" AND "DATA INVALID" ARE USED INTERCHANGEABLY FOR PRE-1976 DATA

[redacted] OF THE ENVIRONMENT - AIR RESOURCES BRANCH NOV 15, 1984

POLLUTANT = [redacted] UNITS = MICROGRAMS

STATION = [redacted] MONTH = JUN 84

HOUR DAY	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	MEAN
1	[redacted]	343	347	305	302	297	[redacted]	[redacted]	[redacted]	310	320	[redacted]	302	331	325	329	324	326	324	325	0	0	0	0	
2	0	101	[redacted]	0	0	0	132	[redacted]	141	107	140	124	143	149	154	185	185	141	160	140	138	134	128	0	
3	0	0	200	314	317	300	320	[redacted]	[redacted]	323	325	317	320	324	313	312	287	287	232	187	188	223	223	224	
4	225	208	200	157	150	174	[redacted]	[redacted]	[redacted]	[redacted]	257	270	271	290	305	224	206	205	217	217	0	151	146	150	158
5	150	146	132	134	134	104	172	172	[redacted]	153	143	140	131	157	171	158	160	161	158	163	169	173	173	167	
6	151	141	141	200	200	224	[redacted]	[redacted]	[redacted]	[redacted]	245	234	230	235	220	325	131	146	152	155	154	163	165	171	
7	174	167	165	160	150	172	[redacted]	[redacted]	[redacted]	227	211	204	205	217	217	210	215	216	167	169	172	174	169	176	
8	131	178	*****	*****	*****	*****	*****	[redacted]	[redacted]	[redacted]	[redacted]	210	205	242	229	221	212	216	217	217	217	215	215	215	
9	214	221	224	215	225	241	[redacted]	[redacted]	[redacted]	[redacted]	244	141	14	147	20	77	104	272	13	1	179	122	130	145	
10	197	173	136	150	145	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	221	223	242	223	275	272	259	274	0	215	262	
11	255	272	275	208	239	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	
12	145	144	140	135	132	131	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	
13	192	235	242	245	0	0	0	0	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	
14	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	
15	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	
16	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	
17	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	
18	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	
19	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	
20	0	0	0	0	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	
21	0	0	0	0	0	0	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	
22	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	
23	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	
24	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	
25	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	
26	0	0	0	0	0	0	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	
27	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	
28	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	
29	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	
30	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	

PERCENTAGE OF DATA VALID = [redacted] PERCENTAGE OF DATA INVALID = 0.0 PERCENTAGE OF DATA UNAVAILABLE = 0.0

NOTES 1. ****** INDICATES [redacted]

2. "-" INDICATES [redacted]

3. ****** INDICATES [redacted]

4. "DATA UNAVAILABLE" AND "MISSING" [redacted]

POLLUTANT = [illegible] UNITS = DEGREES

STATION = [illegible] MONTH = JUL 84

HOUR / DAY	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	MEAN
1	2	2	2	0	1	0	0	4	1	23	23	27	41	41	37	37	45	36	28	20	5	0	0	0	
2	0	5	6	1	0	0	0	0	0	2	2	4	5	7	14	4	14	9	15	14	11	0	3	16	
3	13	8	9	15	16	9	9	10	20	204	255	257	216	234	225	226	225	226	148	168	172	181	185	215	
4	194	0	0	139	223	232	244	234	219	234	204	225	207	244	226	217	0	0	0	185	162	0	0	0	
5	0	0	0	130	0	0	0	0	0	233	179	193	253	317	150	113	138	143	130	150	154	173	190		
6	182	175	176	138	151	134	131	135	142	178	215	241	265	253	270	258	295	307	326	322	306	296	266	271	
7	292	274	282	272	276	274	251	251	299	299	301	301	318	301	292	310	301	294	334	0	0	0	0	0	
8	169	124	144	6	0	1	0	0	1	141	278	332	290	295	313	294	353	149	151	168	167	167	167	167	
9	170	148	146	134	134	137	132	137	138	138	145	150	178	174	174	174	191	142	169	161	188	141	140	170	
10	190	174	170	136	133	116	209	0	238	248	241	253	316	322	329	330	30	346	350	350	0	131	143	152	
11	179	250	212	217	217	232	241	245	231	122	315	316	325	305	324	123	107	287	295	0	0	0	0	0	
12	0	0	0	0	0	0	212	217	208	241	234	234	250	280	293	341	344	7	322	308	0	0	0	0	
13	0	0	0	0	0	0	0	215	271	310	275	257	206	242	209	149	197	194	175	174	174	175	184	191	
14	195	195	206	165	158	0	154	132	211	264	260	232	253	223	215	217	210	173	176	174	170	175	173	174	
15	196	195	189	134	146	135	131	243	194	204	221	208	201	194	203	222	245	217	284	250	255	258	230	229	
16	260	232	234	234	214	215	205	239	234	240	240	240	305	305	307	294	300	240	273	0	0	0	0	0	
17	178	164	172	150	150	173	148	150	144	214	220	203	241	200	194	200	182	258	146	179	141	217	198	216	
18	214	241	0	214	0	229	214	253	241	300	311	317	323	323	329	329	329	329	317	301	204	245	200	232	
19	0	0	139	221	221	234	243	212	214	230	270	231	235	241	305	277	182	202	190	170	174	182	194	198	
20	190	183	187	133	175	150	153	215	144	217	217	225	241	205	202	194	184	174	170	193	186	301	142	176	
21	176	174	0	0	0	0	0	32	0	35	22	22	28	322	347	318	315	315	0	0	0	0	0	0	
22	0	0	0	0	0	0	174	150	147	202	195	243	150	151	191	175	172	158	151	155	163	170	166	170	
23	193	192	199	203	210	215	221	223	215	223	230	235	230	230	220	230	252	270	277	266	276	260	331	350	
24	332	332	325	307	295	301	314	315	305	314	313	311	302	314	324	320	334	342	328	350	344	336	331	0	
25	0	140	150	0	0	0	0	115	110	0	0	167	167	154	329	136	350	355	342	359	0	0	0	151	
26	0	143	144	135	135	132	129	101	135	133	133	99	133	132	0	298	0	0	0	198	160	146	142	0	
27	328	339	347	345	347	1	14	41	15	7	23	13	328	338	334	333	335	344	332	343	0	352	0	0	
28	0	0	0	0	0	0	0	35	17	18	343	325	315	330	319	331	332	342	328	328	0	0	0	0	
29	0	0	41	45	34	34	34	31	32	10	312	22	289	325	312	325	317	326	325	0	0	0	142	151	
30	0	0	0	0	0	0	0	122	298	272	294	276	259	294	298	332	14	19	120	155	155	144	154	156	
31	195	156	153	143	143	137	0	215	209	229	252	231	233	212	224	220	194	180	190	184	192	204	204	208	

PERCENTAGE OF DATA VALID = 100.0 PERCENTAGE OF DATA INVALID = 0.0 PERCENTAGE OF DATA UNAVAILABLE = 0.0

NOTES: 1. "######" INDICATES INVALID DATA DUE TO INSTRUMENTATION FAILURE

2. "-" INDICATES DATA IS UNAVAILABLE

3. "######" INDICATES LESS THAN 75% VALID DATA FOR DAILY MEAN IN ONE DAY

4. "DATA UNAVAILABLE" AND "DATA INVALID" ARE USED INTERCHANGEABLY FOR PRE-1976 DATA

ONTARIO MINISTRY OF THE ENVIRONMENT - AIR RESOURCES BRANCH AUG 01, 1984

POLLUTANT - WIND DIRECTION 1 BELOW 75 FT UNITS - DEGREES

STATION - SW NO 18013 BRUCE NUCLEAR SITE,TIVERTON MONTH - JUN 84

HOUR DAY	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	MEAN
1	45	314	319	25	98	137	129	263	277	****	303	****	2	44	35	61	58	302	52	52	54	94	90	95	
2	174	223	91	88	103	141	148	122	142	134	148	144	101	352	4	280	17	67	76	96	140	140	239	225	
3	216	214	255	297	296	308	****	313	296	308	294	277	257	257	254	239	232	236	219	213	215	215	225	246	
4	246	252	262	252	250	256	254	249	256	260	244	224	239	236	238	238	222	221	216	217	207	214	216	211	
5	****	****	****	****	****	****	-	****	217	-	-	201	183	187	200	202	196	198	173	183	188	-	192	201	
6	211	208	213	214	211	218	218	219	223	224	220	221	218	224	222	-	****	188	201	194	187	204	206	210	
7	210	214	216	209	215	211	213	217	217	225	226	223	****	****	221	224	221	220	215	212	202	192	206	****	
8	217	217	209	204	****	214	215	208	214	211	218	219	220	218	219	221	221	222	219	220	227	233	224	223	
9	219	222	224	234	238	245	****	251	252	250	256	266	270	344	62	64	50	45	68	78	87	90	89	103	
10	146	136	170	192	207	232	249	217	217	218	220	222	224	220	225	227	236	241	244	247	245	237	243	248	
11	254	270	296	333	315	-	320	324	314	315	314	325	346	26	26	321	286	272	299	57	118	144	159	185	
12	192	197	204	202	206	201	203	209	222	222	220	****	220	220	-	219	-	218	220	205	212	203	205	258	
13	223	223	267	337	1	21	106	14	12	25	28	24	46	9	23	325	334	50	57	132	48	31	41	341	
14	334	2	8	346	347	339	331	343	340	333	349	353	356	11	359	353	335	335	345	0	9	20	46	43	
15	43	42	29	38	92	97	124	122	93	40	28	32	21	14	17	18	24	42	52	67	88	93	127	139	
16	171	167	196	193	187	206	198	192	179	184	211	339	345	287	317	11	62	69	78	139	143	141	146	163	
17	207	204	194	192	160	****	****	****	176	195	195	214	218	219	218	****	****	209	211	213	200	****	214	215	
18	****	****	****	****	****	****	****	****	227	237	245	257	234	300	90	276	305	331	291	237	255	263	254	273	
19	248	217	222	234	236	264	8	42	32	26	345	26	351	298	317	16	39	359	4	348	330	357	28	68	
20	88	93	89	87	89	92	135	142	136	36	38	37	35	29	26	25	28	31	43	51	55	81	101	113	
21	131	128	138	-	142	124	120	105	51	44	31	18	24	21	20	43	52	46	45	68	79	89	88	95	
22	96	104	128	132	139	159	140	120	136	166	146	354	27	43	59	55	32	49	66	83	118	****	139	129	
23	135	143	135	137	134	133	125	132	131	127	130	132	40	55	135	161	137	149	141	144	159	175	136	143	
24	158	180	181	221	235	236	252	263	****	269	272	267	253	267	****	256	246	234	290	257	253	249	286	263	
25	262	270	275	277	280	287	293	295	310	306	304	304	318	331	332	289	264	262	261	251	254	263	238	249	
26	226	232	227	180	175	150	172	208	221	229	236	226	225	222	221	219	223	216	211	200	200	190	185	170	
27	176	179	195	199	215	219	218	217	217	229	234	224	236	247	253	252	258	257	253	260	264	262	261	256	
28	258	252	250	261	262	266	260	****	****	260	250	226	225	230	****	252	24	41	38	41	40	65	59	16	
29	13	176	191	322	4	16	1	328	333	324	309	323	324	301	344	15	10	23	22	16	34	56	49	43	
30	75	91	91	109	122	112	96	87	32	12	****	1	347	356	21	5	351	40	37	47	59	49	45	60	

PERCENTAGE OF DATA VALID - 93.5 PERCENTAGE OF DATA INVALID - 5.3 PERCENTAGE OF DATA UNAVAILABLE - 1.3

NOTES 1. "****" INDICATES INVALID DATA DUE TO INSTRUMENTATION FAILURE

2. "-" INDICATES DATA IS UNAVAILABLE

3. "******" INDICATES LESS THAN 2/3 VALID DATA FOR DAILY MEAN IN ONE DAY

4. "DATA UNAVAILABLE" AND "DATA INVALID" ARE USED INTERCHANGEABLY FOR PRE-1976 DATA

POLLUTANT - WIND DIRECTION 1 BELOW 75 FT UNITS - DEGREES

STATION - SW NO 18013 BRUCE NUCLEAR SITE,TIVERTON MONTH - JUL 84

HOUR DAY	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	MEAN
1	71	2	159	118	122	117	352	17	****	****	****	****	31	****	8	****	****	****	****	****	****	190	223	275	
2	257	226	93	142	161	157	166	202	211	****	****	****	****	****	261	263	****	****	****	****	****	195	202	210	
3	215	209	209	210	211	214	218	225	****	****	****	223	****	****	225	****	222	****	****	****	****	205	214	213	
4	215	201	215	234	256	****	****	****	****	****	****	****	****	****	258	****	272	****	****	****	****	179	****	200	
5	236	225	210	220	266	4	****	****	****	-	****	7	20	****	****	****	42	****	****	****	****	****	198	206	
6	200	247	265	248	218	242	****	****	****	****	****	****	****	****	****	****	****	****	****	336	****	312	301	299	
7	304	307	300	296	295	295	****	****	****	304	312	****	****	315	305	****	****	****	264	****	272	273	273	225	
8	210	221	223	221	237	223	****	253	****	****	****	****	****	237	****	****	****	****	****	****	****	184	192	187	
9	203	210	209	200	196	205	****	205	205	****	****	-	****	****	****	****	****	****	****	****	****	225	213	193	
10	194	193	181	165	205	****	153	179	****	****	****	****	****	****	1	94	76	330	51	87	139	131	119	119	
11	127	187	218	216	237	258	271	293	344	358	7	331	330	345	348	332	315	296	260	245	255	249	257	245	
12	242	255	271	290	243	233	239	222	231	236	247	255	270	280	264	270	275	281	260	248	231	227	238	245	
13	198	188	208	198	206	220	216	237	255	258	230	249	248	248	227	223	225	220	221	217	216	216	219	221	
14	222	221	223	223	240	239	252	246	240	238	237	233	232	231	230	224	225	222	219	216	214	218	211	212	
15	216	219	219	217	223	222	216	222	224	217	221	218	221	224	230	241	233	243	243	252	264	254	269	288	
16	360	333	233	201	219	259	262	276	277	-	278	277	286	287	277	295	294	278	346	261	241	253	217	198	
17	197	198	201	199	202	205	202	200	201	213	218	220	221	227	221	217	223	225	231	237	****	****	67	102	
18	102	32	31	359	334	18	32	9	22	15	352	340	327	325	339	345	346	343	340	-	330	340	344	313	
19	299	286	268	207	270	265	266	260	260	259	253	249	246	236	232	216	239	234	223	218	217	216	202	205	
20	208	197	200	205	205	207	153	205	221	229	****	240	****	252	291	318	11	27	57	164	179	90	****	171	
21	223	216	29	63	9	15	27	25	21	334	330	330	344	317	334	355	353	18	47	57	90	99	134	132	
22	132	139	194	188	136	169	182	251	-	269	272	271	275	263	246	240	225	223	202	203	199	206	213	219	
23	217	218	221	222	218	218	219	227	227	223	222	231	229	232	232	237	245	-	291	315	319	337	345	347	
24	348	347	348	344	345	352	14	13	7	15	357	346	349	329	324	332	341	350	349	353	354	354	354	17	
25	31	57	110	101	103	107	122	123	49	355	341	318	310	315	323	324	315	327	308	312	258	201	197	195	
26	193	193	190	192	195	183	188	200	209	222	216	234	260	258	282	295	46	97	106	116	139	137	125	104	
27	83	77	73	83	78	84	70	57	57	54	45	38	34	34	36	34	32	30	27	25	22	22	22	24	
28	36	53	-	97	98	99	95	49	30	36	29	24	13	8	15	11	5	12	23	33	57	58	80	129	
29	149	146	****	174	159	152	157	222	267	266	268	302	320	323	347	12	8	327	29	125	156	166	187	185	
30	185	189	192	189	217	210	204	222	225	235	240	260	262	263	263	269	261	256	220	209	202	196	203	209	
31	214	213	210	214	216	215	210	225	230	232	242	239	235	227	233	237	222	221	218	217	243	226	230	247	

PERCENTAGE OF DATA VALID - 83.1 PERCENTAGE OF DATA INVALID - 16.0 PERCENTAGE OF DATA UNAVAILABLE - 0.9

NOTES 1. "*****" INDICATES INVALID DATA DUE TO INSTRUMENTATION FAILURE

2. "-" INDICATES DATA IS UNAVAILABLE

3. "******" INDICATES LESS THAN 2/3 VALID DATA FOR DAILY MEAN IN ONE DAY

4. "DATA UNAVAILABLE" AND "DATA INVALID" ARE USED INTERCHANGEABLY FOR PRE-1976 DATA

ONTARIO MINISTRY OF THE ENVIRONMENT - AIR RESOURCES BRANCH AUG 01, 1984

POLLUTANT - WIND DIRECTION @ 75 - 250 FT UNITS - DEGREES

STATION - SW NO 18013 BRUCE NUCLEAR SITE,TIVERTON MONTH - JUN 84

HOUR DAY	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	MEAN
1	3	261	272	296	20	62	67	200	215	****	275	****	306	350	347	6	4	246	2	5	10	32	36	46	
2	49	39	71	72	79	79	95	82	100	90	98	80	73	290	289	240	290	356	21	62	80	106	187	167	
3	159	161	200	241	240	252	****	261	246	252	267	229	211	203	199	183	183	180	171	162	158	166	177	190	
4	203	204	212	203	197	204	205	201	206	210	195	173	184	183	187	187	172	168	165	168	154	160	166	163	
5	****	****	****	****	****	****	-	****	161	-	-	142	132	135	147	143	139	138	132	138	134	-	140	148	
6	152	154	160	160	161	162	166	165	165	171	167	169	164	169	167	-	****	134	137	137	135	146	151	154	
7	156	157	162	161	159	156	160	160	164	166	164	165	****	****	173	166	166	160	156	152	141	140	153	154	
8	163	161	155	150	156	159	157	153	153	160	163	163	167	162	168	167	163	165	165	175	178	184	182	180	
9	167	171	176	186	184	194	196	****	200	197	208	220	227	283	16	22	9	359	23	35	48	51	44	57	
10	83	99	119	137	150	175	189	162	160	162	165	165	166	162	168	182	184	189	193	194	196	193	190	194	
11	205	217	245	271	255	-	262	267	261	261	258	263	290	327	335	280	234	206	237	15	74	98	115	124	
12	137	146	151	146	147	147	148	154	162	168	167	****	168	168	-	161	-	162	159	151	157	146	147	201	
13	168	177	224	283	304	327	61	340	331	337	344	331	7	327	337	224	211	51	44	150	3	349	353	295	
14	284	313	321	298	297	282	280	279	280	281	296	298	300	315	310	302	284	281	288	305	315	336	345	344	
15	347	348	339	343	34	41	69	53	45	348	335	338	325	319	325	322	329	349	0	13	30	38	70	97	
16	111	102	134	141	129	140	138	138	129	126	152	264	254	225	256	302	2	15	33	78	92	93	99	123	
17	156	157	153	138	128	****	****	****	131	135	138	164	160	162	163	****	****	154	157	154	147	****	156	157	
18	****	****	****	****	****	****	****	****	177	185	188	203	203	260	32	257	320	318	285	199	200	223	202	224	
19	198	167	179	187	186	220	313	333	334	337	300	311	312	248	271	322	341	315	333	316	291	328	339	18	
20	38	41	41	54	53	63	84	93	85	354	353	351	350	346	342	338	342	346	353	1	5	38	57	60	
21	78	71	76	-	87	60	71	58	37	358	344	328	329	325	323	340	359	357	355	11	20	30	26	28	
22	40	47	62	67	76	89	93	76	78	102	103	194	323	346	358	359	354	3	22	38	61	75	76	74	
23	89	101	103	94	101	85	89	92	85	81	82	90	342	6	89	100	105	103	90	90	102	104	81	84	
24	104	121	127	161	183	185	200	212	****	221	222	218	203	214	****	202	188	178	232	203	200	196	231	215	
25	214	216	222	221	225	235	239	241	250	253	252	247	265	277	277	250	208	207	209	196	202	207	188	195	
26	195	187	184	152	157	138	126	157	161	172	177	173	171	165	163	163	167	163	153	146	143	136	132	131	
27	131	131	135	142	157	162	163	161	162	171	183	172	184	194	198	198	206	199	197	204	207	208	205	203	
28	204	194	197	205	207	209	205	****	****	209	196	175	177	174	****	197	319	350	343	348	352	9	357	322	
29	319	172	157	270	298	314	300	276	275	268	255	270	274	260	290	314	315	334	327	321	336	3	346	350	
30	16	23	11	28	16	29	26	22	344	323	****	311	300	300	322	310	308	339	339	355	3	356	347	4	

PERCENTAGE OF DATA VALID - 93.9 PERCENTAGE OF DATA INVALID - 4.9 PERCENTAGE OF DATA UNAVAILABLE - 1.3

NOTES 1. "*****" INDICATES INVALID DATA DUE TO INSTRUMENTATION FAILURE

2. "-" INDICATES DATA IS UNAVAILABLE

3. "*****" INDICATES LESS THAN 2/3 VALID DATA FOR DAILY MEAN IN ONE DAY

4. "DATA UNAVAILABLE" AND "DATA INVALID" ARE USED INTERCHANGEABLY FOR PRE-1976 DATA

ONTARIO MINISTRY OF THE ENVIRONMENT - AIR RESOURCES BRANCH AUG 01, 1984

POLLUTANT - WIND DIRECTION 2 75 - 250 FT UNITS - DEGREES

STATION - SW NO 18013 BRUCE NUCLEAR SITE, TIVERTON MONTH - JUL 84

HOUR DAY	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	MEAN
1	4	347	20	38	66	55	16	318	****	312	313	****	334	315	316	****	****	****	****	****	****	123	123	218	
2	210	196	25	86	124	132	135	153	155	****	****	****	195	204	200	191	****	****	****	****	****	156	154	157	
3	160	158	156	159	155	157	163	174	****	****	****	164	****	****	169	****	169	****	****	****	****	156	168	162	
4	165	150	165	182	199	****	****	****	****	****	****	****	****	****	194	****	211	****	****	****	****	124	143	147	
5	182	180	171	168	211	321	****	****	****	-	****	329	337	****	****	****	358	****	****	****	****	****	148	147	
6	151	190	212	190	168	182	****	****	****	****	****	****	200	186	****	****	****	****	****	****	****	252	241	238	
7	242	245	237	235	234	235	****	****	****	243	252	****	****	259	****	****	****	****	204	****	213	215	212	194	
8	173	175	187	187	188	175	****	198	****	****	****	****	****	180	****	****	****	****	****	****	****	135	133	129	
9	146	153	152	147	144	142	****	144	****	****	****	-	****	****	****	****	****	****	****	****	****	174	155	139	
10	141	145	125	113	155	****	****	****	****	****	****	****	****	****	308	40	56	288	1	48	98	97	87	76	
11	82	138	166	160	183	206	212	240	283	298	307	275	267	284	284	274	269	244	205	196	196	198	206	195	
12	194	199	222	237	201	186	180	169	174	183	189	197	212	223	201	213	220	217	194	192	193	188	192	190	
13	168	155	157	154	154	164	165	177	199	203	180	191	190	181	171	170	163	167	163	162	163	163	167	165	
14	166	174	176	169	181	187	198	195	185	183	180	178	179	170	174	169	168	164	161	161	158	161	154	158	
15	165	166	165	164	162	169	162	166	168	161	168	164	165	162	179	186	182	187	191	201	215	207	216	234	
16	307	312	244	177	177	200	205	219	221	-	223	221	228	231	218	242	233	224	273	211	184	211	187	169	
17	148	147	152	152	152	146	145	143	147	158	161	161	174	173	161	162	167	170	177	181	****	****	12	37	
18	24	344	333	307	284	322	335	314	323	319	299	284	276	274	283	287	289	285	280	-	276	282	286	261	
19	243	232	216	173	210	207	207	203	204	202	197	194	190	185	176	161	177	178	166	165	168	164	157	157	
20	156	146	147	148	150	150	127	151	163	178	****	183	****	198	231	293	318	345	13	100	120	33	****	122	
21	170	222	322	332	311	318	334	331	327	295	277	278	293	273	282	295	302	320	353	4	29	26	42	40	
22	115	120	99	147	76	106	148	153	-	206	200	201	202	195	180	180	166	165	148	148	142	153	161	159	
23	157	160	170	166	165	162	163	166	168	169	173	177	178	181	179	181	191	-	241	260	265	280	279	285	
24	282	284	289	283	280	291	308	313	309	310	294	280	285	269	263	274	288	285	291	292	292	293	296	322	
25	333	359	38	30	34	46	61	75	359	298	289	269	257	262	270	272	262	283	256	261	211	178	169	162	
26	161	161	163	159	161	150	145	146	155	164	155	171	197	199	225	237	350	44	54	60	70	85	68	47	
27	22	19	18	26	19	26	21	11	360	1	349	340	338	338	339	336	336	335	330	325	324	324	325	327	
28	337	353	-	-	26	33	39	41	13	348	345	338	328	315	311	313	315	311	315	324	335	355	356	4	359
29	335	60	****	97	108	109	147	183	220	225	218	250	266	271	289	306	305	296	343	82	118	132	144	152	
30	146	143	159	158	162	155	159	167	167	183	185	198	204	203	200	196	195	195	168	153	152	151	155	156	
31	160	160	155	157	159	161	160	170	172	182	186	185	178	178	178	183	163	164	163	162	190	174	183	192	

PERCENTAGE OF DATA VALID - 83.5 PERCENTAGE OF DATA INVALID - 15.6 PERCENTAGE OF DATA UNAVAILABLE - 0.9

NOTES 1. "*****" INDICATES INVALID DATA DUE TO INSTRUMENTATION FAILURE

2. "-" INDICATES DATA IS UNAVAILABLE

3. "******" INDICATES LESS THAN 2/3 VALID DATA FOR DAILY MEAN IN ONE DAY

4. "DATA UNAVAILABLE" AND "DATA INVALID" ARE USED INTERCHANGEABLY FOR PRE-1976 DATA

ONTARIO MINISTRY OF THE ENVIRONMENT - AIR RESOURCES BRANCH AUG 01, 1984

POLLUTANT - WIND DIRECTION 3 OVER 250 FT UNITS - DEGREES

STATION - SW NO 18013 BRUCE NUCLEAR SITE,TIVERTON MONTH - JUL 84

HOUR DAY	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	MEAN
1	303	307	316	317	337	333	338	341	****	310	230	****	242	246	248	****	****	****	****	276	****	339	312	197	
2	175	180	293	277	171	189	162	158	139	****	****	157	158	155	151	141	****	****	****	****	****	134	134	135	
3	138	138	137	143	147	144	143	144	****	****	****	137	****	****	136	****	****	****	****	****	****	147	162	146	
4	135	134	149	153	178	****	****	****	****	****	****	159	****	****	164	****	150	****	****	****	****	****	113	129	
5	153	154	159	159	184	294	****	****	****	-	****	313	306	****	293	****	308	****	****	****	****	123	123	124	
6	123	162	190	159	157	160	****	****	****	****	****	****	169	152	****	****	****	****	****	****	****	217	209	211	
7	210	214	205	207	206	202	****	****	****	217	218	****	****	223	217	****	****	****	****	****	191	195	203	188	
8	159	151	165	173	173	165	****	183	****	****	****	****	****	140	****	148	****	****	****	****	****	121	111	113	
9	123	130	126	122	118	114	****	113	****	****	****	****	-	****	****	****	****	****	****	****	****	****	116	99	
10	98	108	93	85	131	****	107	****	****	****	****	****	****	****	247	310	41	194	349	39	51	57	54	32	
11	51	108	135	133	150	168	183	218	262	281	294	275	230	235	233	228	226	211	188	172	178	188	188	181	
12	177	187	211	222	203	187	158	136	143	146	159	168	200	226	188	159	171	187	170	181	194	188	173	170	
13	165	152	138	143	145	150	159	160	181	202	170	174	151	139	147	137	137	134	135	139	138	139	146	140	
14	149	156	153	150	163	176	174	177	167	151	148	153	151	142	136	135	133	135	130	127	131	135	132	129	
15	133	141	138	133	132	136	134	129	131	126	122	115	116	117	134	146	148	156	153	181	188	182	187	199	
16	270	282	282	153	136	153	169	185	184	-	185	187	197	200	188	208	204	194	226	166	149	165	153	144	
17	127	126	124	120	117	114	110	102	111	116	116	120	121	126	123	115	126	136	136	146	****	****	326	330	
18	316	308	295	268	237	281	286	268	285	281	264	244	235	230	242	247	248	243	239	-	241	244	247	222	
19	209	201	187	147	177	177	177	173	172	171	163	157	154	154	140	123	137	136	131	132	135	136	136	135	
20	127	133	137	126	119	115	108	119	135	147	****	143	****	162	195	235	273	264	298	279	83	12	****	44	
21	110	144	256	266	280	282	284	291	313	215	180	179	211	229	239	253	258	271	310	321	311	317	352	29	
22	76	103	92	133	202	132	142	186	-	127	127	144	136	140	131	129	128	122	116	116	118	116	122	122	
23	126	125	126	123	123	121	123	125	129	126	126	129	132	142	141	148	162	-	219	228	230	238	239	241	
24	245	245	245	241	242	250	269	273	268	273	269	255	245	228	222	231	243	242	246	252	252	252	257	278	
25	289	313	330	340	335	344	360	20	344	252	232	213	204	207	216	213	213	240	206	205	161	144	137	145	
26	142	138	143	140	140	138	137	128	118	115	98	117	140	146	162	179	299	345	358	1	12	26	17	9	
27	328	324	322	333	326	327	320	321	310	307	298	291	289	289	288	287	286	284	282	277	274	275	274	278	
28	285	297	-	-	311	318	333	352	346	321	307	292	277	269	267	267	267	265	267	276	282	292	290	298	297
29	296	307	****	330	332	311	200	212	222	221	206	211	219	216	238	257	268	253	273	16	96	132	126	129	
30	129	121	127	130	128	131	135	138	137	144	143	151	168	159	150	149	158	150	136	122	115	119	126	128	
31	131	131	126	126	129	129	133	131	130	145	149	150	137	135	130	131	124	125	124	133	135	141	156	169	

PERCENTAGE OF DATA VALID - 84.0 PERCENTAGE OF DATA INVALID - 15.1 PERCENTAGE OF DATA UNAVAILABLE - 0.9

NOTES 1. "****" INDICATES INVALID DATA DUE TO INSTRUMENTATION FAILURE

2. "-" INDICATES DATA IS UNAVAILABLE

3. "****" INDICATES LESS THAN 2/3 VALID DATA FOR DAILY MEAN IN ONE DAY

4. "DATA UNAVAILABLE" AND "DATA INVALID" ARE USED INTERCHANGEABLY FOR PRE-1976 DATA

ONTARIO MINISTRY OF THE ENVIRONMENT - AIR RESOURCES BRANCH AUG 01, 1984

POLLUTANT - WIND DIRECTION 3 OVER 250 FT UNITS - DEGREES

STATION - SW NO 18013 BRUCE NUCLEAR SITE,TIVERTON MONTH - JUN 84

HOUR DAY	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	MEAN
1	314	306	253	251	296	256	358	39	31	****	327	****	298	303	289	307	316	207	324	319	320	336	348	352	
2	3	20	21	20	25	27	42	61	68	52	61	51	60	127	180	197	199	281	27	66	71	89	150	136	
3	133	134	158	213	220	235	****	245	239	238	232	213	215	215	198	176	164	168	164	143	148	148	163	186	
4	196	196	198	192	192	195	198	198	203	207	195	149	151	156	161	169	157	145	145	139	135	140	142	141	
5	****	****	****	****	****	****	-	****	130	-	-	109	96	97	116	108	103	110	96	95	97	-	110	122	
6	123	125	134	142	150	147	149	146	148	149	144	136	140	140	135	-	****	112	106	100	100	113	121	122	
7	123	125	126	127	131	124	126	133	132	129	134	124	****	****	128	129	125	123	125	117	116	112	119	117	
8	130	126	119	120	****	120	119	118	116	120	118	122	127	122	123	124	121	118	122	135	141	151	156	148	
9	138	137	142	147	152	160	166	****	171	160	172	180	188	199	282	315	312	305	314	345	359	4	16	31	
10	50	65	88	110	119	136	142	125	119	118	122	121	123	119	131	154	158	161	170	167	168	159	156	165	
11	180	184	216	227	214	-	220	220	218	224	223	226	242	247	252	203	154	109	43	27	48	74	85	106	
12	116	116	128	115	116	117	114	113	121	121	122	****	122	124	-	116	-	114	114	105	114	104	106	155	
13	132	144	203	249	247	304	26	343	5	349	5	57	19	141	203	146	147	144	171	152	180	241	252	241	
14	245	255	264	245	244	236	234	235	233	239	260	278	279	282	278	267	250	243	247	262	268	272	277	274	
15	282	296	298	301	332	345	2	5	1	307	288	289	285	278	273	270	274	295	312	330	342	355	25	53	
16	60	76	95	110	106	96	92	92	84	86	104	150	164	167	169	172	204	4	12	40	73	77	75	95	
17	115	113	112	100	87	****	****	****	87	97	103	120	126	124	126	****	****	118	123	126	121	118	123	124	
18	****	****	****	****	****	****	****	****	147	155	161	178	192	212	263	225	258	256	248	222	215	221	216	212	
19	199	173	172	172	184	212	263	275	284	288	279	269	259	240	245	270	284	287	312	316	312	311	339	6	
20	357	353	16	30	35	36	37	50	54	352	317	311	310	303	305	306	307	311	312	310	321	3	15	20	
21	30	47	60	-	57	38	25	26	30	346	300	292	287	277	281	276	278	277	261	266	291	303	310	314	
22	325	335	346	4	6	27	37	40	53	61	62	69	242	294	307	312	326	339	351	1	19	48	49	58	
23	55	63	60	62	54	52	49	53	55	41	36	49	74	51	60	67	66	66	55	61	64	70	50	58	
24	70	87	102	130	162	168	185	197	****	203	204	207	187	199	****	192	156	149	201	178	185	186	214	210	
25	190	195	201	202	207	215	221	221	232	237	236	230	241	246	236	225	209	202	203	179	199	206	175	171	
26	172	170	170	160	169	172	138	124	123	125	132	126	135	128	126	123	127	123	117	111	108	105	95	90	
27	90	92	101	108	122	126	123	121	125	125	130	131	148	161	168	170	173	165	170	178	183	184	184	181	
28	180	169	175	176	179	179	179	****	****	190	170	135	135	139	****	169	274	299	295	296	303	317	307	289	
29	279	245	191	232	251	275	268	237	249	231	212	223	229	223	249	270	272	296	283	283	291	301	294	309	
30	322	313	308	318	331	340	331	335	333	314	****	295	280	274	274	286	289	****	282	****	298	300	298	302	

PERCENTAGE OF DATA VALID - 93.6 PERCENTAGE OF DATA INVALID - 5.1 PERCENTAGE OF DATA UNAVAILABLE - 1.3

NOTES 1. "******" INDICATES INVALID DATA DUE TO INSTRUMENTATION FAILURE

2. "-" INDICATES DATA IS UNAVAILABLE

3. "******" INDICATES LESS THAN 2/3 VALID DATA FOR DAILY MEAN IN ONE DAY

4. "DATA UNAVAILABLE" AND "DATA INVALID" ARE USED INTERCHANGEABLY FOR PRE-1976 DATA

4. B WIND SPEED

SARNIA AIR POLLUTION SURVEY

MET. DATA WIND SPEED UNITS KPH

STATION RIVER BEND MONTH JUN 1984

HOUR DAY	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	MEAN
1	4	6	8	6	8	4	6	1	9	13	10	16	20	15	10	19	20	24	21	15	11	11	8	5	11.3
2	9	9	8	11	8	9	20	11	10	11	10	15	14	15	19	23	18	16	13	10	16	5	0	0	11.7
3	0	11	19	11	9	11	10	9	20	11	24	21	17	15	22	11	3	6	3	5	6	9	11	5	11.2
4	7	2	3	2	0	2	4	2	12	26	15	22	19	20	21	22	15	12	6	6	5	5	6	3	9.9
5	5	6	4	2	3	4	8	2	2	17	25	25	23	25	21	23	18	21	17	17	8	9	5	7	12.4
6	9	11	8	6	8	3	9	12	9	11	19	14	20	17	11	9	18	7	21	11	22	14	15	11	12.3
7	9	9	12	11	7	9	15	19	15	17	20	24	21	31	31	29	23	17	24	23	13	12	9	13	17.2
8	15	12	21	11	15	23	21	31	36	38	40	34	21	25	16	20	22	26	22	21	17	17	16	15	22.3
9	12	11	9	10	7	1	7	7	3	4	3	6	3	9	11	22	20	14	19	16	8	1	2	0	8.5
10	0	0	7	12	10	10	15	22	22	20	32	33	37	31	24	25	26	19	13	10	5	5	11	13	16.8
11	12	8	10	6	8	10	11	12	7	14	15	13	15	18	11	15	14	8	6	3	5	5	3	3	9.7
12	1	0	0	0	1	2	7	12	24	18	24	20	23	24	22	23	23	20	15	13	16	12	11	15	13.6
13	10	3	7	4	1	0	1	2	3	4	15	18	10	6	22	14	7	14	21	13	1	5	5	3	7.9
14	0	19	21	10	4	3	2	9	13	18	23	21	16	17	15	18	18	16	13	7	3	1	4	0	11.3
15	2	3	5	3	8	5	5	7	10	7	2	13	10	17	15	15	12	16	11	3	1	3	0	1	7.3
16	0	0	1	1	4	4	9	11	13	12	13	11	13	17	18	18	14	12	9	10	7	8	5	9	9.1
17	5	8	6	9	9	5	15	14	10	7	11	8	8	13	10	18	15	12	8	12	4	8	7	8	9.6
18	13	11	12	9	7	5	7	151	8	15	21	13	21	19	8	10	21	13	9	12	1	0	1	0	16.1
19	1	1	0	1	1	1	0	2	9	8	9	21	15	16	22	25	16	17	12	8	11	9	8	11	9.3
20	6	4	3	4	4	7	10	5	2	8	11	14	9	16	27	19	20	19	16	14	8	0	1	1	9.5
21	0	0	2	0	0	2	6	9	8	10	3	3	18	11	18	19	17	18	15	10	4	6	0	2	7.5
22	2	4	3	0	0	4	21	15	18	22	21	18	16	17	20	16	16	12	11	8	9	6	14	15	12.0
23	9	11	8	3	8	7	3	10	10	18	16	16	18	16	14	13	8	11	5	12	9	13	4	4	10.3
24	0	8	5	4	16	5	8	12	11	11	21	17	21	17	18	14	7	13	9	8	8	3	0	2	9.9
25	0	1	1	1	0	0	5	5	13	10	21	15	18	11	5	8	3	14	9	3	3	1	0	0	6.1
26	0	1	2	1	2	0	2	1	5	11	11	10	20	19	20	25	18	18	13	11	13	11	11	13	9.9
27	10	17	17	14	17	13	13	11	22	39	18	26	26	24	20	24	13	12	13	12	6	6	0	3	15.7
28	1	1	1	1	2	0	2	1	3	10	16	16	17	16	13	14	10	9	6	10	5	10	5	8	7.4
29	7	2	2	0	2	1	14	14	9	9	6	8	12	10	7	6	10	10	9	3	9	2	7	9	7.0
30	7	6	8	3	4	8	9	11	18	17	17	20	19	17	19	20	19	17	15	12	11	8	15	11	13.0
MEAN	5.2	6.2	7.1	5.2	5.8	5.3	8.8	14.3	11.8	14.5	16.4	17.0	17.3	17.5	17.0	17.9	15.5	14.8	12.8	10.6	8.2	6.8	6.1	6.3	11.2

PERCENTAGE OF DATA VALID 100.0

TOTAL MONTHLY SUM= 8053.00 TOTAL MONTHLY RECORD HOURS = 720.00

SARNIA AIR POLLUTION SURVEY

MET. DATA WIND SPEED UNITS KPH

STATION RIVER BEND MONTH JUL 1984

HOUR DAY	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	MEAN
1	10	10	11	6	4	3	9	8	15	20	17	14	13	24	18	17	15	11	8	5	0	1	0	3	10.1
2	4	4	3	3	3	1	4	10	7	3	7	10	4	1	7	9	14	9	5	2	5	2	5	2	5.2
3	1	1	6	2	0	0	3	4	9	8	19	25	14	20	16	13	16	14	7	4	5	3	3	0	8.0
4	0	7	5	3	1	0	3	5	4	4	7	7	9	7	6	5	8	6	11	2	1	1	1	1	4.3
5	2	3	0	0	0	0	0	1	0	3	6	10	21	6	8	3	13	9	9	9	6	5	8	8	5.4
6	5	0	1	0	3	25	16	17	15	12	18	8	9	7	25	13	19	12	20	9	3	3	3	0	10.1
7	0	0	1	0	1	1	7	5	10	12	6	8	9	4	5	8	12	5	6	1	0	2	3	0	4.4
8	0	2	2	1	0	0	3	1	3	0	2	2	3	0	4	13	9	12	7	3	6	8	10	6	4.0
9	2	2	1	2	3	6	11	20	8	22	15	20	28	28	35	22	18	21	14	14	6	6	6	****	13.5
10	DATA MISSING																								
11	DATA MISSING																								
12	DATA MISSING																								
13	DATA MISSING																								
14	DATA MISSING																								
15	DATA MISSING																								
16	DATA MISSING																								
17	DATA MISSING																								
18	DATA MISSING																								
19	DATA MISSING																								
20	DATA MISSING																								
21	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	5	1	0	6	3	3	5	****
22	8	7	8	5	0	2	1	2	6	4	4	8	7	5	6	8	6	4	5	5	4	6	4	3	4.9
23	4	1	1	2	2	2	4	5	6	6	4	5	5	5	5	7	7	7	1	7	6	4	6	4	4.4
24	3	2	0	0	0	0	0	0	0	0	4	1	6	3	3	4	4	2	2	2	2	4	4	2	2.0
25	6	4	4	5	5	5	6	6	9	7	7	7	****	****	****	****	****	****	****	7	8	7	7	7	6.3
26	7	7	8	8	7	9	8	8	7	8	7	9	8	9	9	9	8	8	8	9	7	7	7	9	8.0
27	8	7	7	8	7	7	8	8	4	5	1	1	2	2	7	5	6	4	5	8	7	6	7	6	5.7
28	6	6	7	6	7	7	7	9	6	7	5	6	5	6	6	8	5	6	5	8	8	3	7	7	6.4
29	7	7	7	7	7	7	7	7	8	9	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****
30	DATA MISSING																								
31	DATA MISSING																								
MEAN	4.3	4.1	4.4	3.4	2.9	4.4	5.7	6.8	6.9	7.6	8.1	8.8	9.5	8.5	10.7	9.6	10.7	8.4	7.1	5.6	4.7	4.2	4.9	3.9	6.4

PERCENTAGE OF DATA VALID 52.8

TOTAL MONTHLY SUM= 2504.00 TOTAL MONTHLY RECORD HOURS = 393.00

SARNIA AIR POLLUTION SURVEY

MET. DATA WIND SPEED UNITS KPH

STATION LASALLE ROAD MONTH JUN 1984

HOUR DAY	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	MEAN
1	6	6	8	8	3	3	0	0	2	3	3	3	3	5	6	10	11	11	11	10	10	3	0	0	5.2
2	0	2	0	0	0	2	0	5	5	6	10	10	10	13	14	13	16	14	10	10	10	10	8	5	7.2
3	0	8	16	18	14	13	14	18	18	19	19	21	24	21	18	13	11	11	8	6	3	2	11	8	13.1
4	10	6	5	5	2	2	5	6	11	16	18	18	24	18	14	14	14	11	11	3	2	5	2	5	9.5
5	5	8	6	5	8	10	8	11	6	5	11	18	18	19	18	16	16	16	14	13	14	13	11	10	11.6
6	11	13	13	13	8	8	11	18	16	14	18	19	19	16	14	11	14	11	13	16	13	14	14	11	13.7
7	13	13	14	16	14	13	11	13	18	14	18	21	26	24	32	29	29	21	19	24	18	16	16	13	18.5
8	13	16	14	18	21	21	26	26	34	35	42	43	40	32	26	22	24	29	27	18	27	26	26	22	26.2
9	19	18	18	10	11	8	8	13	13	8	10	5	5	6	3	6	10	13	11	13	8	2	0	0	9.1
10	0	2	8	13	14	11	8	19	26	29	32	34	35	37	37	35	29	24	21	16	8	2	6	13	19.1
11	16	13	11	14	11	14	16	14	16	13	11	10	11	11	11	11	11	8	5	5	0	2	2	0	9.8
12	2	2	0	2	5	8	6	10	13	19	22	19	22	27	24	24	22	21	16	16	14	14	10	10	13.7
13	11	13	13	8	8	3	0	3	5	6	3	8	11	8	3	13	18	19	10	18	27	10	6	3	9.5
14	8	6	13	19	18	6	6	10	11	13	16	16	16	16	16	16	18	19	18	16	11	6	6	3	12.6
15	2	2	3	6	6	5	8	6	8	6	8	8	6	6	13	14	13	13	11	6	6	2	0	2	6.7
16	0	0	2	2	3	3	6	8	8	8	10	10	11	13	13	18	14	11	11	11	10	11	8	6	8.2
17	5	3	5	8	6	5	8	11	6	6	5	6	8	11	13	11	11	10	11	10	11	11	3	5	7.9
18	8	10	8	5	3	6	6	11	14	16	18	18	21	21	18	16	16	16	11	8	2	0	2	2	10.7
19	0	0	3	2	2	0	2	5	6	8	10	13	11	11	11	16	14	13	11	10	8	5	6	8	7.3
20	5	6	0	5	8	6	6	8	5	3	8	8	10	11	13	11	14	14	13	10	6	3	2	0	7.3
21	0	0	0	0	0	0	3	6	8	6	6	8	10	11	13	11	11	10	11	8	5	5	2	0	5.6
22	2	0	2	0	2	0	3	10	11	11	10	8	10	10	10	10	8	6	5	5	5	6	6	6	6.1
23	5	6	6	5	8	6	6	5	6	6	10	13	10	13	14	10	6	10	13	6	10	3	8	5	7.9
24	6	10	10	13	13	14	16	18	14	16	19	21	26	22	22	19	19	14	16	18	11	11	5	6	15.0
25	5	5	6	6	5	5	10	6	11	14	16	18	18	18	13	8	6	5	10	8	3	0	3	0	8.3
26	0	0	0	0	0	2	0	0	6	8	11	14	13	13	16	19	21	19	14	11	11	16	14	14	9.3
27	13	13	14	19	18	22	21	21	21	32	37	22	27	32	29	24	21	19	19	21	16	11	13	10	20.6
28	6	6	8	6	5	3	5	6	8	11	14	18	16	18	16	14	10	8	6	6	6	6	8	5	9.0
29	5	5	3	3	3	5	11	11	13	11	10	10	11	10	10	10	11	13	11	10	10	11	11	11	9.1
30	11	11	11	5	8	10	11	10	13	14	16	16	14	16	16	14	14	11	11	8	10	10	10	6	11.5
MEAN	6.2	6.8	7.3	7.8	7.6	7.1	8.0	10.3	11.7	12.5	14.7	15.2	16.2	16.3	15.9	15.3	15.1	14.0	12.6	11.3	9.8	7.9	7.3	6.3	11.0

PERCENTAGE OF DATA VALID 100.0

TOTAL MONTHLY SUM= 7897.00 TOTAL MONTHLY RECORD HOURS = 720.00

SARNIA AIR POLLUTION SURVEY

MET. DATA WIND SPEED UNITS KPH

STATION LASALLE ROAD MONTH JUL 1984

HOUR DAY	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	MEAN
1	10	8	10	6	6	5	3	8	6	10	10	10	11	13	13	13	11	10	10	6	2	0	0	2	7.6
2	0	0	0	2	0	0	2	3	8	6	6	6	6	8	5	11	13	8	3	5	6	6	6	3	4.7
3	5	3	8	5	3	3	5	8	11	11	14	19	19	19	19	13	16	16	13	8	6	8	10	3	10.2
4	5	6	10	8	8	6	6	10	8	6	5	6	10	13	6	11	8	5	5	2	5	3	3	6	6.7
5	5	6	5	5	5	2	2	3	2	2	3	2	11	18	6	11	10	11	11	13	10	6	10	14	7.2
6	13	11	8	5	5	5	13	5	10	16	18	16	13	13	13	16	18	22	22	19	16	14	16	10	13.2
7	8	10	10	10	10	10	14	21	24	19	19	16	16	13	10	13	13	13	10	6	2	0	0	0	11.1
8	0	0	2	2	2	0	2	5	3	6	6	8	10	8	6	6	8	13	10	6	11	13	11	10	6.2
9	10	10	6	6	6	11	13	14	14	16	19	18	22	26	27	26	24	19	16	16	13	8	6	10	14.8
10	11	14	10	11	11	8	3	5	8	10	10	8	11	16	13	11	6	10	8	6	5	3	5	11	8.9
11	19	16	14	19	16	14	14	10	13	13	14	14	14	13	8	14	13	8	10	5	6	6	10	8	12.1
12	3	5	5	6	5	5	6	10	11	13	14	16	16	16	14	13	14	16	****	0	0	0	0	0	8.2
13	0	2	0	0	0	0	5	5	6	11	11	10	8	10	11	14	16	14	8	8	5	3	3	3	6.4
14	3	5	3	2	2	2	5	6	10	11	11	13	13	14	18	16	19	21	19	13	11	10	8	10	10.2
15	6	2	2	6	8	10	11	13	16	16	19	22	19	19	22	22	21	18	13	11	13	11	6	6	13.0
16	8	8	10	8	8	11	11	13	16	18	19	18	19	19	16	13	14	14	11	5	0	0	3	0	10.9
17	2	3	3	2	0	3	8	13	13	16	18	18	19	22	26	24	11	13	16	18	10	5	5	6	11.4
18	5	3	3	3	6	8	10	13	14	13	14	16	13	11	11	13	14	14	11	6	0	2	0	0	8.5
19	0	3	5	2	5	2	3	8	11	13	14	13	11	13	14	13	16	19	19	16	11	8	10	6	9.8
20	5	2	2	2	2	5	10	13	19	16	16	18	19	21	21	19	22	24	21	19	18	13	3	8	13.3
21	5	2	2	2	2	3	2	0	2	3	5	5	11	11	11	13	11	10	8	6	3	0	0	2	5.0
22	0	0	0	0	0	0	0	2	5	8	10	10	8	11	11	16	14	14	11	8	6	11	8	8	6.7
23	6	8	6	6	8	13	13	16	19	21	26	26	26	24	21	16	11	8	10	13	21	8	8	11	14.4
24	13	6	8	11	8	6	8	11	11	10	8	10	10	10	10	11	13	11	11	10	5	5	3	6	9.0
25	6	6	5	3	2	2	2	3	5	3	5	6	6	6	11	13	11	11	11	6	2	2	2	2	5.5
26	0	0	2	0	2	0	5	8	6	5	8	5	6	8	11	6	6	5	5	5	5	1	2	3	4.3
27	0	3	2	6	5	6	8	10	11	13	13	14	14	18	16	18	16	15	15	11	11	8	6	5	10.2
28	5	6	5	6	3	3	3	3	8	11	11	13	15	15	15	16	15	15	13	10	5	2	0	0	8.3
29	2	0	0	3	2	2	0	5	5	8	10	10	8	10	10	11	10	10	6	6	3	2	0	0	5.1
30	0	2	0	0	0	0	0	2	3	10	6	5	6	5	3	10	11	10	11	8	5	8	5	0	4.6
31	2	2	3	2	0	0	2	2	6	10	11	14	18	18	16	19	21	19	19	16	11	11	10	10	10.1
MEAN	5.1	4.9	4.8	4.8	4.5	4.7	6.1	8.0	9.8	11.1	12.0	12.4	13.2	14.2	13.4	14.2	13.7	13.4	11.9	9.3	7.3	5.7	5.1	5.3	9.0

PERCENTAGE OF DATA VALID 99.9

TOTAL MONTHLY SUM= 6650.00 TOTAL MONTHLY RECORD HOURS = 743.00

SARNIA AIR POLLUTION SURVEY

MET. DATA WIND SPEED UNITS KPH

STATION SIXTH LINE MONTH JUN 1984

HOUR DAY	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	MEAN
1	6	5	4	2	0	2	2	0	2	0	2	1	0	2	0	9	15	12	11	12	4	3	5	3	4.3
2	2	0	0	1	0	0	5	2	1	2	4	5	6	7	3	11	6	5	1	3	3	4	5	1	3.2
3	1	7	19	12	10	9	17	15	15	20	20	23	16	18	16	7	11	8	3	5	7	9	4	6	11.6
4	6	7	7	5	1	5	4	3	9	11	20	19	16	10	17	13	11	10	6	0	0	1	0	5	7.8
5	1	2	3	0	1	0	4	3	1	3	4	8	19	8	14	9	9	9	9	10	7	7	5	6	5.9
6	11	13	10	9	10	6	14	17	12	13	16	11	12	13	3	10	7	7	8	10	11	8	13	7	10.5
7	7	9	9	11	10	12	11	17	13	14	11	19	21	24	19	27	21	12	27	18	14	14	11	10	15.0
8	16	11	15	14	21	19	23	29	33	27	32	35	28	27	18	21	21	23	16	17	17	20	20	16	21.6
9	17	14	12	10	10	6	8	13	6	6	0	7	16	10	7	14	20	10	13	12	9	0	1	0	9.2
10	0	3	10	11	9	12	19	18	28	22	24	25	31	29	25	22	14	21	15	3	5	4	9	11	15.4
11	13	11	14	12	12	16	15	15	15	9	7	6	4	8	13	15	14	6	7	5	3	0	1	0	9.2
12	0	0	0	0	2	0	5	9	10	9	21	21	20	20	22	19	12	9	8	11	4	8	6	10	9.4
13	8	8	7	7	0	3	5	3	4	5	11	11	0	13	13	13	6	10	21	17	4	6	8	6	7.9
14	4	24	20	14	8	4	8	9	11	20	18	23	22	24	25	28	29	28	21	16	6	9	6	2	15.8
15	2	11	8	4	8	11	9	11	12	4	1	3	1	11	13	14	13	12	13	6	3	3	2	0	7.3
16	1	2	2	3	5	6	6	10	5	1	3	4	7	7	17	13	10	8	4	5	3	4	3	0	5.4
17	7	4	3	4	1	5	12	7	1	9	3	0	0	2	1	2	3	0	2	2	3	1	2	2	3.2
18	2	8	8	9	8	8	6	63	6	18	12	15	16	21	16	15	15	12	9	8	2	0	4	3	11.8
19	4	4	0	0	0	0	2	5	5	9	6	17	15	11	19	18	19	16	11	15	10	8	11	9	8.9
20	9	6	4	5	7	3	8	6	3	3	2	4	8	11	12	15	18	17	17	14	6	6	2	0	7.8
21	3	1	0	0	2	2	6	7	10	6	3	2	6	11	13	13	11	11	13	10	10	4	2	3	6.2
22	4	6	0	0	0	4	12	11	13	17	14	7	9	2	12	12	6	3	9	4	8	5	11	10	7.5
23	8	10	7	6	8	9	13	10	5	6	3	5	4	9	9	7	2	3	7	12	0	5	3	3	6.4
24	1	6	6	8	11	8	9	14	15	15	17	14	20	21	22	13	15	13	11	8	15	9	3	5	11.6
25	4	3	5	4	6	5	9	10	13	16	19	22	17	20	11	8	4	12	11	1	4	8	2	3	9.0
26	0	0	0	0	0	0	2	6	6	7	11	9	12	16	18	13	16	10	8	6	7	5	9	3	6.8
27	10	13	16	15	16	19	19	18	25	31	12	16	35	25	19	17	17	16	17	13	10	8	5	8	16.7
28	7	6	5	4	3	1	5	5	6	8	13	14	15	18	14	14	13	10	9	8	8	17	11	7	9.2
29	9	8	7	4	6	8	15	14	17	10	10	10	14	13	12	18	17	17	19	15	18	16	12	16	12.7
30	11	13	13	9	9	10	14	11	11	16	23	24	19	17	24	21	21	24	17	18	15	13	20	18	16.3
MEAN	5.8	7.2	7.1	6.1	6.1	6.4	9.6	12.0	10.4	11.2	11.4	12.7	13.6	14.3	14.2	14.4	13.2	11.8	11.4	9.5	7.2	6.8	6.5	5.8	9.8

PERCENTAGE OF DATA VALID 100.0

TOTAL MONTHLY SUM= 7045.00 TOTAL MONTHLY RECORD HOURS = 720.00

SARNIA AIR POLLUTION SURVEY

MET. DATA WIND SPEED UNITS KPH

STATION SIXTH LINE MONTH JUL 1984

HOUR DAY	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	MEAN
1	12	15	11	8	12	8	7	8	10	10	11	10	14	17	17	17	13	11	6	0	1	0	0	2	9.2
2	0	0	1	2	0	0	0	5	6	3	4	4	4	7	8	9	13	4	0	1	5	7	4	1	3.7
3	1	7	4	6	3	1	3	6	7	8	15	16	16	12	18	10	13	6	6	3	5	7	2	0	7.3
4	4	11	9	5	5	2	5	7	2	4	5	8	9	8	9	9	6	6	3	0	1	2	5	3	5.3
5	4	6	6	2	2	0	3	2	1	0	0	4	20	8	13	10	14	10	12	8	8	7	11	10	6.7
6	10	6	7	0	2	25	9	0	13	15	16	10	9	8	24	21	19	23	26	15	16	11	10	4	12.5
7	8	7	7	4	6	8	20	22	20	18	13	21	16	10	9	14	9	7	8	2	2	0	1	1	9.7
8	2	0	2	3	2	0	5	5	0	4	4	6	3	4	9	8	9	7	6	4	3	6	7	5	4.3
9	4	6	1	0	0	1	7	15	13	15	11	15	25	21	18	23	16	17	12	8	9	0	3	****	10.4
10	****	****	****	****	****	9	6	7	9	8	7	8	11	9	6	6	2	18	3	13	4	2	0	13	7.4
11	30	14	7	14	10	10	9	6	9	9	18	21	12	9	9	16	13	8	4	3	6	7	6	6	10.7
12	4	6	5	7	7	5	6	6	11	12	14	11	13	17	11	10	26	5	1	6	0	0	0	0	7.6
13	0	2	0	0	0	0	5	3	6	5	7	2	4	11	12	16	15	10	3	5	3	5	4	6	5.2
14	3	5	6	5	2	4	6	8	7	8	7	11	14	15	17	19	17	17	9	8	6	5	3	4	8.6
15	1	2	4	6	5	9	10	12	10	15	17	16	15	14	18	19	17	8	8	14	10	5	8	8	10.5
16	9	6	5	6	9	10	14	13	18	18	18	14	16	20	11	11	10	10	8	0	2	1	5	0	9.8
17	0	3	3	2	0	3	10	14	14	19	13	16	20	22	25	25	18	21	14	12	6	5	6	6	11.5
18	4	4	4	4	3	7	15	14	19	13	10	16	19	12	15	16	17	16	14	2	0	0	1	0	9.4
19	1	5	2	5	1	4	2	5	9	8	9	8	6	15	9	15	17	18	17	11	11	8	6	5	8.2
20	5	0	7	5	7	9	10	11	15	16	18	17	19	14	19	22	21	17	16	20	15	8	2	7	12.5
21	1	3	0	3	0	6	1	4	2	0	0	4	9	7	12	11	12	11	9	3	1	3	3	3	4.5
22	0	0	0	4	1	0	0	1	10	6	4	4	7	10	12	10	15	10	5	4	8	6	4	3	5.2
23	7	2	4	7	7	8	11	16	17	16	21	22	18	21	17	17	14	9	19	12	9	8	4	12	12.4
24	16	10	5	8	6	5	6	6	10	8	7	9	10	11	16	14	18	13	12	10	11	9	7	6	9.7
25	6	4	5	1	2	4	6	2	3	2	2	5	6	11	15	15	9	12	7	6	2	2	4	2	5.5
26	0	0	3	0	3	0	0	1	0	6	8	7	10	9	14	8	9	1	1	1	0	0	3	2	3.6
27	4	6	3	9	6	7	9	7	16	18	18	16	20	18	23	23	28	23	21	18	16	8	13	9	14.1
28	7	5	8	1	5	3	2	9	16	15	17	16	19	18	16	18	21	17	12	8	4	1	3	1	10.1
29	6	2	8	0	1	1	0	9	10	11	11	8	12	16	8	12	12	7	6	8	1	3	0	0	6.3
30	1	1	0	0	0	0	0	1	6	5	2	6	2	6	14	8	9	11	9	0	0	3	4	1	3.7
31	1	0	0	0	0	0	0	3	13	6	11	11	12	19	20	18	19	13	10	11	9	9	8	4	8.2
MEAN	5.0	4.6	4.2	3.9	3.6	4.8	6.0	7.4	9.7	9.7	10.3	11.0	12.6	12.9	14.3	14.5	14.5	11.8	9.3	7.0	5.6	4.5	4.4	4.1	8.2

PERCENTAGE OF DATA VALID 99.2

TOTAL MONTHLY SUM= 6043.00 TOTAL MONTHLY RECORD HOURS = 738.00

SARNIA AIR POLLUTION SURVEY

MET. DATA WIND SPEED UNITS KPH

STATION FRONT STREET MONTH JUN 1984

HOUR DAY	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	MEAN
1	6	9	9	5	2	0	0	2	2	0	4	4	6	13	7	8	3	9	9	9	8	4	7	5	5.5
2	2	4	2	3	0	0	2	0	1	8	5	6	8	6	5	7	7	5	5	8	6	13	0	4	4.5
3	2	16	20	16	11	9	14	16	11	14	15	15	23	13	8	5	3	6	6	7	10	11	11	7	11.2
4	8	3	5	4	7	2	5	3	10	11	9	8	17	12	11	8	11	11	6	6	2	3	3	4	7.0
5	6	6	6	6	6	6	8	6	4	4	8	11	16	11	12	10	6	7	5	8	7	6	8	6	7.5
6	7	13	13	11	10	12	11	12	11	14	13	13	15	12	7	5	3	7	9	7	8	9	9	5	9.8
7	11	9	9	14	10	12	13	13	14	8	14	15	25	19	23	21	21	12	23	19	10	11	13	10	14.5
8	10	13	9	17	21	14	24	23	31	27	24	33	28	18	13	18	19	23	20	20	16	14	12	13	19.2
9	10	14	11	9	8	7	8	8	3	3	3	4	4	5	6	9	18	5	14	6	7	5	7	2	7.3
10	0	0	10	12	10	6	15	16	20	20	25	25	32	24	25	20	18	16	10	6	1	5	11	16	14.3
11	13	11	6	7	15	22	22	17	9	9	10	4	9	11	10	11	6	12	8	8	3	0	1	1	9.4
12	2	1	0	2	5	5	3	8	10	17	15	23	12	17	20	11	16	12	6	6	6	8	11	10	9.4
13	10	6	9	5	0	0	0	1	13	10	16	2	6	10	11	17	6	14	30	0	1	7	5	6	7.7
14	14	22	15	12	3	5	10	11	11	15	15	14	15	19	22	20	22	19	15	11	12	9	5	6	13.4
15	5	4	3	4	6	3	11	9	6	9	10	11	12	15	17	14	10	4	4	8	6	0	0	1	7.2
16	1	0	0	1	0	3	2	2	6	2	7	4	11	10	12	17	9	6	6	5	1	5	6	2	4.9
17	2	0	3	3	0	3	14	7	2	5	17	2	4	4	6	9	7	5	5	4	25	4	10	6	6.1
18	9	8	9	1	4	6	12	9	15	12	12	8	24	14	18	16	14	7	7	6	1	0	0	2	8.9
19	1	0	1	2	0	16	2	8	2	10	11	5	10	14	13	14	14	8	8	11	11	7	9	10	7.8
20	8	6	6	6	6	8	9	2	9	13	11	14	12	16	11	17	12	15	12	9	8	5	3	3	9.2
21	4	4	0	2	2	2	8	7	8	11	12	14	13	13	14	11	11	11	5	6	7	5	3	2	7.3
22	1	0	2	1	0	0	4	4	2	5	7	4	10	6	4	9	3	4	4	0	4	6	5	3	3.7
23	4	9	3	2	1	2	1	3	7	6	5	6	3	5	7	9	2	5	5	6	2	3	1	9	4.4
24	4	10	8	8	13	10	10	11	13	14	17	14	23	23	18	13	19	19	9	14	11	5	6	7	12.5
25	7	7	8	9	10	10	11	11	12	10	18	16	13	11	6	0	7	6	3	2	2	4	1	0	7.7
26	0	0	0	1	1	1	4	6	3	7	11	9	13	13	14	16	16	13	6	3	8	9	6	8	7.0
27	7	11	21	12	18	18	16	15	24	25	17	20	26	24	24	20	16	23	16	13	9	13	6	6	16.7
28	9	6	6	5	3	6	3	2	7	14	14	11	11	12	13	15	14	8	6	3	1	5	5	6	7.7
29	3	3	3	5	10	8	11	11	14	12	9	12	11	14	9	13	10	16	15	9	8	11	14	8	10.0
30	6	11	9	6	9	7	6	13	13	18	17	17	16	21	17	15	20	15	18	12	9	11	7	10	12.6
MEAN	5.7	6.9	6.9	6.4	6.4	6.8	8.6	8.5	9.8	11.1	12.4	11.5	14.3	13.5	12.8	12.6	11.4	10.8	9.8	7.7	7.0	6.6	6.2	5.9	9.1

PERCENTAGE OF DATA VALID 100.0

TOTAL MONTHLY SUM= 6583.00 TOTAL MONTHLY RECORD HOURS = 720.00

SARNIA AIR POLLUTION SURVEY

MET. DATA WIND SPEED UNITS KPH

STATION FRONT STREET MONTH JUL 1984

HOUR DAY	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	MEAN
1	8	9	9	7	5	4	7	10	11	11	10	10	9	11	11	13	15	9	7	9	2	3	3	3	8.2
2	0	0	0	0	1	0	0	0	6	5	7	4	4	5	1	8	6	4	3	2	4	4	8	6	3.3
3	5	7	10	7	1	4	4	6	7	6	13	17	11	15	12	14	13	9	6	6	7	7	7	4	8.3
4	3	8	8	4	8	1	9	3	6	0	5	7	2	6	6	4	4	2	3	3	3	4	3	8	4.6
5	4	4	1	2	8	1	1	1	1	2	5	12	12	6	8	0	14	10	12	14	8	6	16	15	6.8
6	16	11	10	3	6	15	10	15	15	19	12	12	9	5	13	13	23	19	27	18	15	10	13	9	13.3
7	9	12	10	9	7	9	16	19	18	21	13	11	14	11	9	12	12	13	11	10	6	3	2	5	10.9
8	0	0	1	4	1	1	1	0	0	1	0	6	4	1	6	8	10	7	11	6	8	10	8	8	4.3
9	6	8	9	6	6	5	5	9	8	11	10	11	21	18	21	25	17	13	11	11	12	5	5	13	11.1
10	5	6	7	7	7	11	5	7	4	10	6	7	10	9	2	5	9	9	11	3	1	0	2	11	6.4
11	27	13	12	16	11	11	7	6	9	13	13	14	14	7	11	13	7	8	8	3	5	2	1	6	9.9
12	2	0	1	5	7	4	7	7	3	13	12	13	13	11	6	7	23	2	6	6	4	0	0	0	6.3
13	0	6	0	1	0	0	7	4	9	9	6	5	0	5	11	9	13	12	6	4	2	2	5	8	5.2
14	5	5	5	5	5	4	4	9	5	6	7	6	11	17	13	15	17	19	12	14	15	10	14	6	9.5
15	10	9	9	12	13	14	17	16	15	19	18	19	20	17	17	16	17	12	7	9	14	9	6	6	13.4
16	9	8	6	9	6	10	13	14	16	15	19	18	18	16	13	14	13	11	10	4	4	1	0	4	10.5
17	0	3	8	10	11	14	17	17	17	20	13	18	19	15	20	6	16	0	15	6	6	6	5	5	11.1
18	6	2	4	5	6	7	11	14	13	12	11	15	12	14	14	17	21	13	12	5	0	3	0	5	9.3
19	8	8	11	8	4	4	5	7	8	12	9	11	7	11	13	13	15	14	17	16	14	11	19	13	10.8
20	9	7	8	10	11	14	12	15	13	11	9	7	17	17	17	19	17	17	22	24	19	0	4	9	12.8
21	2	2	5	3	4	0	1	1	3	5	13	13	15	12	16	16	10	7	6	3	0	3	4	3	6.1
22	3	0	1	0	0	0	0	1	3	9	7	7	7	7	11	9	9	9	9	7	7	9	9	9	5.5
23	11	9	9	14	11	16	17	14	17	19	21	17	18	18	13	16	11	7	15	13	13	9	10	16	13.9
24	13	13	10	8	6	7	10	11	9	9	9	13	17	12	13	13	10	14	6	5	8	5	5	8	9.8
25	9	5	6	3	3	4	6	5	2	4	6	8	****	****	12	6	9	8	3	11	****	****	****	****	6.1
26	****	****	****	****	****	****	****	****	****	****	****	****	****	8	2	6	3	1	4	2	3	2	0	3	****
27	4	7	4	9	9	8	10	13	14	17	16	18	21	23	22	22	24	22	21	19	14	9	14	8	14.5
28	7	4	4	4	7	8	6	9	9	15	18	16	14	18	15	14	18	16	14	3	4	2	3	2	9.6
29	4	3	4	2	1	0	2	6	6	10	12	6	9	9	14	13	13	3	2	4	0	0	0	0	5.1
30	0	6	4	0	1	3	0	2	6	7	1	4	0	1	0	8	6	8	11	5	5	5	4	3	3.7
31	2	5	0	1	1	2	1	5	10	10	12	11	7	16	11	15	15	14	13	16	16	14	16	13	9.4
MEAN	6.2	6.0	5.9	5.8	5.6	6.0	7.0	8.2	8.8	10.7	10.4	11.2	11.6	11.4	11.4	11.9	13.2	10.1	10.4	8.4	7.3	5.1	6.2	7.0	8.6

PERCENTAGE OF DATA VALID 97.4

TOTAL MONTHLY SUM= 6225.00 TOTAL MONTHLY RECORD HOURS = 725.00 .

SARNIA AIR POLLUTION SURVEY

MET. DATA WIND SPEED UNITS KPH

STATION RIVERFRONT: IOEL MONTH JUN 1984

HOUR DAY	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	MEAN
1	4	6	6	7	5	0	0	0	3	4	1	6	11	15	15	11	14	11	11	14	11	9	8	5	7.4
2	9	6	1	6	0	4	3	1	2	11	7	8	9	8	17	13	12	13	14	10	11	10	2	4	7.5
3	1	16	19	11	15	11	13	15	18	20	15	21	20	17	16	7	10	8	8	6	7	9	9	9	12.5
4	6	6	7	7	6	5	8	5	11	12	15	12	16	14	12	10	10	8	6	7	6	6	9	9	8.9
5	11	9	7	10	11	9	9	7	11	9	16	13	19	15	14	16	11	8	10	12	11	12	13	10	11.4
6	10	8	8	12	11	10	13	13	12	13	11	16	15	12	16	9	15	13	19	12	17	16	15	10	12.8
7	15	15	11	11	12	11	11	14	13	11	14	16	21	17	23	22	16	12	18	13	12	10	14	11	14.3
8	14	18	13	15	16	16	19	22	24	30	34	23	18	21	9	17	17	30	13	16	15	11	9	12	18.0
9	11	13	13	10	8	5	10	12	9	5	7	9	10	7	9	10	19	14	24	16	9	7	11	6	10.6
10	6	5	7	8	8	12	11	15	19	16	24	23	24	17	18	32	26	13	12	8	6	4	11	16	14.2
11	16	9	11	9	11	14	14	18	16	17	14	14	14	15	14	16	13	9	7	9	5	11	7	9	12.2
12	7	6	6	8	9	9	8	13	18	14	18	22	15	18	16	15	18	19	15	9	13	12	9	11	12.8
13	12	6	7	5	2	3	4	0	9	14	21	14	13	11	13	14	8	13	33	11	5	6	9	6	10.0
14	9	26	23	17	8	5	11	9	24	18	24	21	27	27	29	26	27	23	18	19	10	10	15	11	18.2
15	5	13	11	13	12	11	12	12	9	13	14	15	16	20	20	16	16	13	9	12	10	10	5	9	12.3
16	10	6	8	9	12	11	7	12	12	7	8	10	5	14	20	18	8	5	8	10	13	11	9	5	9.9
17	8	10	14	14	11	6	18	10	5	14	11	9	12	11	11	11	9	13	8	5	30	4	8	7	10.8
18	6	10	8	5	2	6	10	12	15	15	14	13	21	21	18	16	14	10	17	8	4	0	0	0	10.2
19	0	0	5	1	1	0	1	10	6	11	16	16	14	18	17	21	17	13	15	14	18	13	14	15	10.7
20	14	11	12	13	12	11	15	6	13	20	17	17	14	18	19	19	17	19	15	14	14	9	6	4	13.7
21	1	4	0	1	1	2	13	12	14	15	18	16	19	18	19	16	15	17	13	12	10	8	6	6	10.7
22	4	2	6	1	0	6	10	13	16	14	9	10	15	11	13	11	6	15	14	10	8	9	7	11	9.2
23	12	15	6	5	11	9	10	12	9	12	8	11	12	12	8	11	10	11	12	14	8	9	7	6	10.0
24	6	9	8	12	17	11	12	11	18	17	19	20	22	23	21	15	17	22	10	13	14	5	5	6	13.9
25	8	6	8	8	6	6	12	7	13	16	24	16	16	17	15	5	10	14	11	9	6	7	6	3	10.4
26	1	1	0	0	1	4	4	6	4	8	13	11	12	13	16	16	11	15	18	12	11	14	10	11	8.8
27	16	17	13	16	19	15	14	15	15	24	19	30	25	29	25	21	16	21	20	16	10	11	7	6	17.5
28	7	7	8	6	3	7	6	2	6	13	16	23	17	12	14	14	10	12	11	3	4	17	13	8	10.0
29	8	8	5	7	10	16	20	17	19	15	12	15	16	17	16	18	18	25	21	15	15	23	24	17	15.7
30	16	22	22	11	16	19	16	19	19	21	21	26	25	24	26	21	25	21	21	19	16	19	17	18	20.0
MEAN	8.4	9.7	9.1	8.6	8.5	8.5	10.5	10.7	12.7	14.3	15.3	15.9	16.4	16.4	16.6	15.6	14.5	14.7	14.4	11.6	11.0	10.1	9.5	8.7	12.1

PERCENTAGE OF DATA VALID 100.0

TOTAL MONTHLY SUM= 8747.00 TOTAL MONTHLY RECORD HOURS = 720.00

SARNIA AIR POLLUTION SURVEY

MET. DATA WIND SPEED UNITS KPH

STATION RIVERFRONT: IOEL MONTH JUL 1984

HOUR / DAY	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	MEAN
1	19	17	15	12	9	5	13	14	18	17	15	15	12	13	15	15	16	17	10	10	3	1	0	2	11.8
2	0	0	0	0	0	0	0	0	7	9	9	13	9	6	4	13	12	6	8	4	9	11	9	7	5.7
3	5	5	10	8	3	6	6	6	10	10	11	17	15	16	13	14	13	10	9	6	8	5	6	3	9.0
4	5	10	9	7	6	2	9	5	4	3	7	6	8	8	15	7	2	4	3	1	8	3	6	11	6.2
5	5	7	3	6	5	4	3	0	3	13	2	17	16	10	5	11	14	11	20	14	12	8	9	10	8.7
6	12	10	2	4	3	25	4	9	12	15	10	21	14	7	15	22	19	17	21	13	14	10	14	10	12.6
7	9	13	12	11	9	11	18	24	17	15	16	13	12	9	6	10	15	13	8	2	4	5	4	5	10.9
8	7	0	0	3	0	0	1	2	0	4	0	1	5	10	8	7	9	6	12	8	13	13	12	12	5.5
9	10	12	10	10	11	12	14	12	11	16	17	18	22	24	21	22	16	17	13	17	9	8	8	11	14.2
10	9	13	9	11	12	13	4	11	5	13	9	8	14	12	7	10	11	15	6	8	4	4	10	14	9.7
11	22	15	17	21	13	16	8	10	9	10	20	17	11	6	13	14	9	10	7	5	7	3	0	5	11.2
12	0	5	6	10	8	6	7	7	10	13	12	12	16	14	14	12	22	4	11	6	2	0	3	0	8.3
13	2	6	2	0	0	0	8	5	9	12	10	6	3	12	10	13	13	8	9	10	6	7	5	4	6.7
14	2	4	4	4	4	4	4	8	10	11	10	11	9	17	16	14	20	14	15	12	8	10	11	9	9.6
15	7	7	5	11	6	9	11	20	17	19	22	16	16	21	21	19	17	13	11	12	14	9	7	9	13.3
16	10	10	7	8	8	10	12	17	18	16	21	14	19	16	15	13	12	13	6	3	5	7	1	0	10.9
17	3	7	9	12	14	13	13	15	15	18	14	14	16	16	23	6	13	6	18	10	4	7	8	9	11.8
18	6	4	7	9	7	6	10	12	13	13	13	13	19	19	19	24	25	25	18	7	0	5	2	9	11.9
19	6	8	11	12	7	4	8	9	14	17	9	7	13	16	17	16	15	8	14	11	18	8	11	13	11.3
20	9	9	9	16	10	7	16	22	15	13	8	9	16	17	15	20	17	18	13	14	20	11	0	10	13.1
21	6	4	6	4	8	7	1	4	9	10	16	20	18	18	21	16	16	11	12	7	3	5	3	7	9.7
22	7	4	3	0	0	0	2	6	6	8	9	12	8	13	10	13	13	13	9	8	11	15	9	10	7.9
23	12	6	8	9	7	17	18	18	16	21	21	18	13	13	12	18	13	7	13	16	11	10	9	13	13.3
24	25	16	11	7	4	5	8	7	9	7	16	14	21	18	14	17	16	20	22	17	16	15	16	17	14.1
25	18	14	6	1	0	4	4	8	8	4	9	13	19	18	21	17	16	16	12	6	5	14	11	10	10.6
26	10	5	6	3	5	6	5	7	8	7	8	7	15	12	14	11	7	7	9	14	8	8	1	3	7.8
27	5	6	6	11	8	8	1	12	20	22	23	21	25	26	29	28	32	28	26	23	20	23	22	20	18.5
28	14	15	12	13	9	4	4	9	16	18	19	19	18	20	22	26	26	22	19	13	11	8	7	2	14.4
29	2	3	4	3	0	3	4	11	12	11	14	12	12	14	16	14	15	6	6	7	7	0	0	0	7.3
30	4	7	2	1	2	6	2	4	5	3	5	4	3	4	2	10	4	12	11	8	13	9	8	7	5.7
31	6	5	6	3	5	5	5	7	11	9	14	10	10	12	15	18	17	16	14	9	12	12	15	15	10.5
MEAN	8.3	8.0	7.0	7.4	5.9	7.0	7.2	9.7	10.9	12.2	12.5	12.8	13.8	14.1	14.5	15.2	15.0	12.7	12.4	9.7	9.2	8.2	7.3	8.3	10.4

PERCENTAGE OF DATA VALID 100.0

TOTAL MONTHLY SUM= 7726.00 TOTAL MONTHLY RECORD HOURS = 744.00

ONTARIO MINISTRY OF THE ENVIRONMENT - AIR RESOURCES BRANCH NOV 02, 1984

POLLUTANT - WIND SPEED 1 BELOW 75 FT UNITS - KILOMETRES/HOUR

STATION - SW NO 10024 GRAND BEND AIRPORT HWY 81 MONTH - JUN 84

HOUR DAY	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	MEAN
1	14	20	17	18	18	4	4	12	16	11	13	14	15	17	16	17	17	17	12	9	9	7	6	1	13
2	13	9	9	2	6	4	6	7	14	14	14	16	15	11	15	12	16	19	19	21	19	19	10	2	12
3	2	6	7	30	25	18	19	20	22	24	25	22	21	18	8	9	11	9	8	9	9	10	12	15	15
4	13	16	18	8	12	9	10	25	28	26	31	30	26	21	17	15	11	9	8	7	8	10	9	10	16
5	6	10	8	8	10	10	12	13	10	13	16	25	25	26	30	26	24	18	14	16	21	18	14	18	16
6	13	13	13	13	13	15	18	24	27	23	22	24	21	15	7	4	24	24	20	15	16	14	14	16	17
7	8	11	11	11	11	11	14	22	24	19	22	30	34	38	40	40	37	28	12	14	15	17	17	21	21
8	19	14	16	16	20	22	34	****	36	51	51	45	39	29	36	35	29	28	33	28	21	21	20	16	29
9	12	11	11	21	18	21	21	19	14	13	13	13	7	7	7	15	17	11	11	11	9	9	9	10	13
10	10	11	15	20	24	29	30	34	41	38	44	44	45	34	25	30	22	13	6	9	7	29	27	34	26
11	28	28	28	28	27	26	27	27	25	26	21	18	16	17	18	15	7	6	6	2	5	5	7	9	18
12	7	7	8	6	15	20	23	26	26	26	30	26	25	25	25	21	19	16	13	10	15	14	14	18	18
13	17	9	11	12	3	3	7	17	16	9	10	19	15	15	11	10	11	12	4	2	0	0	14	28	11
14	18	18	19	16	27	32	32	****	****	29	30	38	29	25	27	33	33	30	24	21	14	13	5	7	24
15	9	2	7	10	0	3	7	7	8	7	16	19	20	22	23	21	19	18	13	9	9	5	7	9	11
16	9	5	7	11	10	11	14	21	17	12	13	9	15	12	15	12	11	7	12	9	10	13	11	11	12
17	10	17	18	23	16	13	25	36	18	15	18	16	18	21	18	19	16	13	14	9	10	12	9	10	16
18	12	11	15	6	7	10	9	15	25	25	27	20	15	15	17	18	16	20	18	11	7	0	6	5	14
19	10	11	6	0	6	2	2	12	21	19	18	18	16	16	18	18	19	18	12	9	3	4	9	5	11
20	7	4	3	2	7	16	15	16	10	****	-	18	22	16	24	22	26	25	25	22	16	11	7	4	14
21	7	6	10	1	0	0	5	7	4	7	7	8	17	19	24	24	24	22	18	17	13	7	4	0	10
22	5	5	5	4	5	5	9	18	18	18	20	20	24	24	23	20	17	18	16	11	15	15	16	20	15
23	20	18	14	20	24	22	21	19	15	23	22	24	24	25	23	23	18	18	18	16	16	18	16	14	20
24	13	9	10	18	17	22	26	27	28	26	23	17	20	22	29	23	21	19	15	22	35	21	9	11	20
25	9	11	5	5	7	9	12	12	15	20	21	19	16	24	20	16	17	18	13	8	7	7	9	4	13
26	7	0	0	5	0	0	4	7	7	7	6	18	12	12	18	15	18	25	21	18	13	16	17	18	11
27	21	21	21	23	23	20	21	24	24	25	29	34	26	28	31	33	28	24	29	23	23	23	23	22	25
28	22	14	11	11	21	16	11	15	16	13	12	26	26	23	19	19	17	14	14	6	5	13	14	12	15
29	8	5	4	7	8	9	15	16	16	19	21	22	22	24	27	27	24	24	21	17	16	15	15	14	17
30	10	18	14	6	7	7	7	13	11	18	22	24	24	30	33	34	34	30	27	17	14	11	9	9	18
MEAN	12	11	11	12	13	13	15	18	19	20	21	23	22	21	21	21	20	18	16	13	13	13	12	12	16.3

PERCENTAGE OF DATA VALID - 99.3 PERCENTAGE OF DATA INVALID - 0.6 PERCENTAGE OF DATA UNAVAILABLE - 0.1

NOTES 1. "****" INDICATES INVALID DATA DUE TO INSTRUMENTATION FAILURE

2. "-" INDICATES DATA IS UNAVAILABLE

3. "******" INDICATES LESS THAN 2/3 VALID DATA FOR DAILY MEAN IN ONE DAY

4. "DATA UNAVAILABLE" AND "DATA INVALID" ARE USED INTERCHANGEABLY FOR PRE-1976 DATA

ONTARIO MINISTRY OF THE ENVIRONMENT - AIR RESOURCES BRANCH NOV 02, 1984

POLLUTANT - WIND SPEED 1 BELOW 75 FT UNITS - KILOMETRES/HOUR

STATION - SW NO 10024 GRAND BEND AIRPORT HWY 81 MONTH - JUL 84

HOUR DAY	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	MEAN
1	13	8	0	0	0	0	0	0	8	13	13	17	18	20	21	22	22	23	20	18	6	6	0	6	11
2	2	3	4	0	5	0	5	0	2	4	6	7	13	9	4	9	9	7	4	5	7	9	7	7	5
3	8	9	8	7	7	6	5	8	16	16	18	19	19	19	15	21	19	20	13	10	9	10	10	10	13
4	14	10	5	5	4	7	11	13	15	10	10	18	18	18	18	15	14	13	6	0	5	6	4	2	10
5	6	0	0	0	8	5	7	5	5	5	9	5	12	12	11	18	6	12	11	9	9	9	11	11	8
6	12	12	9	10	11	13	9	24	12	16	10	18	24	21	15	21	16	19	30	34	33	33	33	33	20
7	31	35	31	30	30	32	33	33	33	33	32	33	34	31	24	24	20	17	10	7	5	5	5	4	24
8	6	8	6	6	5	0	0	6	4	8	9	14	20	18	14	12	12	12	8	7	5	10	12	12	9
9	11	11	9	7	7	7	16	18	26	20	21	31	29	29	33	33	33	32	27	21	22	18	17	17	21
10	15	17	11	12	12	8	11	11	9	11	13	20	17	12	13	16	15	12	10	7	7	7	7	20	12
11	18	25	26	13	16	11	13	18	19	22	22	27	25	17	22	26	19	10	6	4	0	3	4	0	15
12	4	0	4	4	4	6	8	8	9	9	24	24	24	24	19	18	16	7	4	8	7	0	5	4	10
13	4	4	4	8	7	4	5	6	8	14	10	10	13	13	14	12	13	21	15	13	10	10	11	11	10
14	11	10	8	7	9	10	6	8	9	11	19	15	19	19	15	20	22	22	16	14	12	11	9	11	13
15	8	9	9	8	9	8	10	13	15	20	20	28	28	24	24	23	20	19	19	17	13	13	21	14	16
16	14	14	24	20	14	19	18	19	26	27	26	20	21	21	18	17	14	12	8	1	1	2	0	3	15
17	5	6	6	6	6	7	9	11	12	19	16	17	23	20	15	13	11	10	12	16	9	7	9	5	11
18	6	3	8	6	4	6	9	8	12	16	21	28	26	24	24	26	22	20	12	4	6	3	1	5	13
19	5	6	12	8	8	6	14	18	18	18	19	18	14	9	11	17	11	9	11	9	9	9	9	10	12
20	10	7	7	7	7	9	15	12	14	13	16	17	19	18	20	20	15	11	10	12	7	18	6	6	12
21	7	3	4	5	4	3	4	4	4	4	7	12	17	19	21	20	17	12	8	5	1	1	2	3	8
22	1	3	4	3	1	3	5	6	7	6	6	4	5	5	9	12	12	11	9	7	8	9	10	8	6
23	12	11	12	14	18	16	18	17	22	28	24	24	22	24	22	11	12	13	18	16	9	18	16	28	18
24	21	23	19	16	18	19	20	20	22	22	23	22	24	25	22	25	27	24	22	14	11	12	2	2	19
25	1	1	1	1	1	0	8	8	4	5	10	13	15	17	16	16	14	8	4	3	2	3	2	4	7
26	7	7	4	3	7	7	9	7	6	7	11	10	10	11	6	9	5	0	6	5	2	3	0	3	6
27	3	1	3	4	8	5	10	11	11	13	16	21	29	32	27	32	28	24	18	14	13	13	13	3	15
28	1	****	1	3	****	2	0	3	5	9	14	16	21	23	26	28	27	26	23	12	5	4	3	0	11
29	3	5	7	8	6	4	8	7	6	9	13	15	16	14	16	14	12	4	5	****	4	1	1	3	8
30	2	2	3	1	5	2	4	5	6	11	14	15	11	9	7	5	3	5	4	9	5	5	4	5	6
31	7	6	4	6	3	1	4	7	11	13	14	16	9	12	14	16	16	15	7	7	9	9	10	7	9
MEAN	9	9	8	7	8	7	9	11	12	14	16	18	19	18	17	18	16	15	12	10	8	9	8	8	12.0

PERCENTAGE OF DATA VALID - 99.6 PERCENTAGE OF DATA INVALID - 0.4 PERCENTAGE OF DATA UNAVAILABLE - 0.0

NOTES 1. "****" INDICATES INVALID DATA DUE TO INSTRUMENTATION FAILURE

2. "-" INDICATES DATA IS UNAVAILABLE

3. "******" INDICATES LESS THAN 2/3 VALID DATA FOR DAILY MEAN IN ONE DAY

4. "DATA UNAVAILABLE" AND "DATA INVALID" ARE USED INTERCHANGEABLY FOR PRE-1976 DATA

ONTARIO MINISTRY OF THE ENVIRONMENT - AIR RESOURCES BRANCH AUG 01, 1984

POLLUTANT - WIND SPEED 1 BELOW 75 FT UNITS - KILOMETRES/HOUR

STATION - SW NO 14016 OPPOSITE LAMBTON GS HWY40 COURTRIGHT MONTH - JUN 84

HOUR DAY	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	MEAN
1	3	2	4	2	2	1	4	2	0	****	10	****	10	4	5	9	6	16	13	7	6	3	5	7	6
2	4	2	3	4	2	5	3	6	9	13	14	15	19	19	22	20	24	21	15	18	15	12	12	4	12
3	2	6	19	19	16	18	17	19	18	19	23	21	19	18	15	18	12	10	5	6	9	8	11	11	14
4	11	8	7	7	7	4	7	5	9	18	19	20	20	15	19	18	18	16	13	9	9	9	8	11	12
5	****	****	9	7	8	10	-	****	5	-	-	22	23	22	21	18	21	21	21	22	17	-	16	15	16
6	15	15	13	15	14	13	13	14	15	12	16	16	15	20	16	-	****	18	22	18	20	22	20	18	16
7	18	17	18	18	17	14	15	18	17	16	19	25	30	23	32	31	28	22	30	25	21	20	18	16	21
8	18	19	19	23	22	27	30	34	35	39	43	42	38	28	21	19	23	24	21	23	23	22	19	21	26
9	16	17	13	11	11	10	12	10	10	9	7	6	13	15	13	16	18	8	11	11	10	6	2	3	11
10	****	5	14	14	14	16	19	24	26	26	27	32	36	31	31	22	26	24	20	13	6	7	13	16	20
11	20	18	15	18	17	-	21	17	12	12	12	7	9	8	12	10	12	11	8	5	2	3	4	3	11
12	6	3	5	4	8	12	13	20	23	25	24	26	26	25	-	21	-	19	17	18	18	17	14	14	16
13	13	10	8	9	5	2	7	2	6	5	15	8	10	11	15	13	19	14	23	16	17	1	8	10	10
14	9	4	12	10	10	6	6	11	13	13	18	20	15	18	15	15	19	22	14	11	10	9	4	5	12
15	4	4	7	7	6	6	8	12	14	12	8	1	6	8	13	16	14	12	16	11	4	3	2	3	8
16	4	4	4	3	8	5	9	13	14	13	13	16	13	14	16	16	12	12	13	15	14	13	12	14	11
17	11	9	11	15	17	****	****	****	18	8	10	14	15	15	17	****	****	16	14	14	13	4	****	****	13
18	****	****	****	****	****	****	****	****	****	****	****	17	26	24	24	17	17	17	9	10	4	3	1	3	******
19	3	2	2	3	2	4	2	3	9	****	****	10	12	11	13	17	17	16	15	10	11	8	5	7	8
20	6	3	3	5	7	4	7	11	8	6	5	8	10	14	15	10	15	15	13	8	6	7	3	4	8
21	3	4	6	-	6	3	4	8	9	11	7	6	7	5	14	13	12	14	15	11	5	2	3	3	7
22	6	6	1	4	3	5	10	11	15	20	17	17	18	18	18	18	13	16	12	10	6	7	10	12	11
23	13	9	9	7	6	5	12	10	13	15	17	19	15	17	13	13	15	17	19	18	3	7	11	11	12
24	6	5	9	11	13	13	16	18	****	24	26	25	29	28	****	24	23	24	18	22	12	13	4	5	17
25	7	10	9	6	5	9	14	13	14	15	22	23	22	18	20	14	10	11	9	9	6	6	4	2	12
26	2	2	2	2	3	4	2	5	7	12	16	14	15	15	20	26	24	20	19	20	19	22	19	9	12
27	19	23	24	25	26	25	25	22	29	32	22	26	36	37	33	28	26	23	24	22	14	12	11	7	24
28	10	9	9	7	8	5	7	7	9	14	19	22	22	23	23	20	13	12	7	7	3	5	9	7	12
29	4	4	4	3	8	9	9	14	13	12	8	11	13	19	12	15	16	11	13	11	10	14	9	8	10
30	10	10	9	12	6	8	10	14	15	16	18	17	16	15	12	18	16	12	14	13	8	10	13	10	13
MEAN	9	8	9	10	10	9	11	13	14	16	17	17	19	18	18	18	17	16	15	14	11	9	9	9	13.2

PERCENTAGE OF DATA VALID - 94.7 PERCENTAGE OF DATA INVALID - 4.0 PERCENTAGE OF DATA UNAVAILABLE - 1.3

NOTES 1. "****" INDICATES INVALID DATA DUE TO INSTRUMENTATION FAILURE

2. "-" INDICATES DATA IS UNAVAILABLE

3. "******" INDICATES LESS THAN 2/3 VALID DATA FOR DAILY MEAN IN ONE DAY

4. "DATA UNAVAILABLE" AND "DATA INVALID" ARE USED INTERCHANGEABLY FOR PRE-1976 DATA

ONTARIO MINISTRY OF THE ENVIRONMENT - AIR RESOURCES BRANCH AUG 01, 1984

POLLUTANT - WIND SPEED 1 BELOW 75 FT UNITS - KILOMETRES/HOUR

STATION - SW NO 14016 OPPOSITE LAMBTON GS HWY40 COURTRIGHT MONTH - JUL 84

HOUR DAY	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	MEAN
1	11	7	5	5	10	7	8	8	10	11	12	13	14	12	17	13	15	7	11	7	3	1	3	2	9
2	3	2	3	2	2	1	2	7	8	9	12	11	4	13	11	13	11	7	7	7	8	12	10	9	7
3	10	10	10	9	6	7	6	5	8	14	18	20	19	20	23	19	14	15	7	10	12	12	6	4	12
4	9	12	12	9	7	6	5	12	8	4	5	12	16	12	15	3	7	8	6	7	11	5	4	7	8
5	5	4	5	4	2	2	2	3	2	-	3	12	24	23	20	15	15	12	13	13	12	14	15	16	10
6	14	14	9	5	8	12	13	5	16	18	18	18	12	12	16	27	29	30	25	18	16	19	16	12	16
7	13	13	8	10	10	10	13	28	31	26	20	18	16	16	13	11	17	13	10	9	3	2	3	2	13
8	2	2	3	3	6	3	6	5	3	4	3	6	6	4	7	11	15	14	14	11	15	16	15	15	8
9	13	14	14	12	14	17	17	19	22	21	24	-	36	32	35	33	24	23	24	25	20	10	9	17	21
10	8	16	12	13	16	11	3	7	10	10	8	10	15	18	15	10	9	6	10	2	8	7	10	17	10
11	18	18	11	16	13	16	14	12	14	15	7	12	10	12	10	12	12	12	15	7	11	12	14	3	12
12	2	3	2	3	2	3	6	11	11	14	15	17	22	25	19	18	18	10	6	3	4	2	2	2	9
13	3	3	3	2	2	2	3	3	7	11	9	11	12	12	19	22	21	18	13	12	9	10	9	8	9
14	8	7	8	9	6	5	9	9	10	11	12	16	18	19	20	20	20	26	22	18	15	9	6	10	13
15	11	9	11	12	12	12	13	14	18	19	19	22	19	17	25	23	19	16	18	14	23	13	10	9	16
16	9	9	9	15	16	18	17	22	23	-	24	26	26	23	21	18	19	20	15	7	2	2	7	4	15
17	3	6	8	8	6	9	14	18	20	19	17	17	19	22	30	32	22	19	18	19	****	****	11	9	16
18	9	7	7	8	9	13	17	19	20	16	19	21	19	17	10	12	12	13	14	-	0	2	4	5	12
19	3	4	7	6	10	5	9	11	13	16	13	13	12	15	15	19	23	25	22	18	17	12	14	14	13
20	13	11	10	10	14	14	14	14	17	16	****	21	****	27	24	27	29	30	22	24	23	16	****	7	18
21	6	6	4	2	4	5	4	2	2	4	5	8	11	3	13	10	12	13	13	8	4	4	4	5	6
22	5	3	3	3	3	2	4	2	-	9	13	15	16	15	18	22	23	21	16	15	14	17	14	12	12
23	9	8	8	8	10	15	13	14	16	19	23	23	26	26	22	20	22	-	9	25	****	****	****	****	17
24	****	****	****	****	****	****	****	****	****	****	****	7	8	12	13	12	14	12	12	12	5	5	3	6	******
25	5	6	8	8	7	8	7	9	6	4	2	5	5	5	9	13	12	15	14	9	6	6	7	9	8
26	10	6	5	4	3	5	11	10	9	9	12	10	11	10	6	10	10	7	9	10	9	8	2	3	8
27	4	9	6	10	9	5	6	12	9	13	16	18	18	12	19	23	20	14	14	14	11	9	9	8	12
28	8	9	-	7	5	8	7	8	12	11	19	15	13	14	14	12	16	9	12	8	3	3	6	7	10
29	6	5	****	5	4	4	4	4	11	9	10	11	11	11	13	11	12	12	9	6	3	3	3	3	7
30	3	4	1	2	2	2	2	3	3	8	3	2	7	10	16	16	12	14	17	9	14	12	9	8	7
31	8	8	7	4	3	2	2	5	9	11	12	17	17	19	22	29	28	21	22	19	14	16	12	10	13
MEAN	8	8	7	7	7	8	8	10	12	13	13	14	15	16	17	17	17	15	14	12	10	9	8	8	11.5

PERCENTAGE OF DATA VALID - 96.2 PERCENTAGE OF DATA INVALID - 2.8 PERCENTAGE OF DATA UNAVAILABLE - 0.9

NOTES 1. "****" INDICATES INVALID DATA DUE TO INSTRUMENTATION FAILURE

2. "-" INDICATES DATA IS UNAVAILABLE

3. "****" INDICATES LESS THAN 2/3 VALID DATA FOR DAILY MEAN IN ONE DAY

4. "DATA UNAVAILABLE" AND "DATA INVALID" ARE USED INTERCHANGEABLY FOR PRE-1976 DATA

ONTARIO MINISTRY OF THE ENVIRONMENT - AIR RESOURCES BRANCH AUG 01, 1984

POLLUTANT - WIND SPEED 2.75-250 FT UNITS - KILOMETRES/HOUR

STATION - SW NO 14016 OPPOSITE LAMBTON GS HWY40 COURTRIGHT MONTH - JUN 84

HOUR DAY	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	MEAN
1	7	8	11	6	5	2	6	3	1	****	11	****	9	4	5	8	9	18	19	15	13	7	13	13	9
2	12	6	6	8	3	5	6	7	11	15	16	18	21	22	24	23	25	21	17	20	18	16	15	6	14
3	5	13	30	26	20	19	21	22	26	24	26	30	32	26	20	22	16	12	7	10	14	13	16	18	20
4	18	14	14	13	10	8	8	8	10	19	22	23	21	19	22	22	20	20	15	12	15	15	15	18	16
5	****	****	15	14	16	16	-	****	7	-	-	29	27	28	27	23	29	27	31	29	23	-	22	20	23
6	19	19	19	21	17	15	16	18	17	16	19	19	18	24	21	-	****	23	28	23	29	31	27	24	21
7	22	23	23	22	20	17	18	21	19	18	22	29	34	30	34	33	31	27	34	29	25	25	22	25	25
8	23	25	25	30	29	31	33	39	40	42	48	51	44	33	26	22	28	27	24	29	27	26	24	23	31
9	21	21	18	15	13	13	14	14	12	11	9	7	16	19	16	20	21	9	13	17	15	8	5	7	14
10	4	6	21	20	17	20	23	26	29	32	34	38	39	37	37	30	30	26	24	18	12	13	18	20	24
11	25	20	17	20	20	-	26	27	17	15	13	8	11	17	17	13	15	15	11	7	3	9	12	12	15
12	13	10	11	12	17	19	19	25	27	28	28	28	30	29	-	29	-	26	23	24	25	25	19	17	22
13	17	14	12	14	8	6	9	7	9	6	17	7	14	14	18	17	18	17	24	19	21	4	14	15	13
14	12	10	20	11	16	11	9	15	18	20	21	25	19	28	25	30	32	27	24	18	20	16	15	10	19
15	9	9	13	12	14	13	13	13	17	15	9	3	6	11	16	17	14	14	21	15	10	10	6	7	12
16	8	9	11	8	11	11	12	16	18	17	15	18	15	15	17	18	15	15	16	20	19	17	16	18	15
17	13	12	14	16	21	****	****	****	22	13	13	17	18	20	20	****	****	18	19	20	18	8	****	****	17
18	****	****	****	****	****	****	****	****	****	****	****	19	29	26	25	18	19	22	18	14	10	8	3	6	******
19	5	9	7	3	6	4	7	7	12	****	****	11	17	14	18	21	21	25	21	19	18	11	14	14	13
20	14	10	9	12	16	13	11	14	9	8	7	11	14	16	17	18	22	19	17	15	12	16	10	12	13
21	6	9	12	-	11	10	7	9	11	13	9	5	7	9	18	17	19	17	19	18	15	8	7	10	12
22	10	13	6	****	9	11	12	11	16	23	21	19	21	23	22	20	15	21	17	15	13	11	15	17	16
23	17	16	11	10	11	9	15	12	15	19	20	22	16	21	17	15	18	22	25	19	3	9	15	14	15
24	8	8	13	14	16	16	17	19	****	26	27	28	32	32	****	27	24	25	18	26	16	16	8	9	19
25	11	15	14	11	10	13	17	14	14	20	25	30	27	27	27	22	13	11	15	13	12	12	12	9	16
26	3	3	3	3	2	4	3	6	8	14	18	18	16	17	24	29	28	25	23	24	25	27	24	14	15
27	25	27	27	29	29	29	28	25	34	36	26	27	39	40	36	33	29	24	27	24	18	16	16	11	27
28	15	15	14	12	13	11	10	9	11	14	21	25	23	24	25	22	18	15	13	12	12	13	17	15	16
29	14	13	1.	8	12	12	12	17	19	19	12	11	15	22	17	11	20	21	19	16	19	15	11	15	15
30	20	17	17	19	15	15	13	19	17	19	24	20	22	23	24	22	24	15	24	19	15	16	18	19	19
MEAN	13	13	15	14	14	13	14	16	17	19	20	21	22	22	22	22	21	20	20	19	17	15	15	14	17.4

PERCENTAGE OF DATA VALID - 94.7 PERCENTAGE OF DATA INVALID - 4.0 PERCENTAGE OF DATA UNAVAILABLE - 1.3

NOTES 1. "****" INDICATES INVALID DATA DUE TO INSTRUMENTATION FAILURE

2. "-" INDICATES DATA IS UNAVAILABLE

3. "******" INDICATES LESS THAN 2/3 VALID DATA FOR DAILY MEAN IN ONE DAY

4. "DATA UNAVAILABLE" AND "DATA INVALID" ARE USED INTERCHANGEABLY FOR PRE-1976 DATA

ONTARIO MINISTRY OF THE ENVIRONMENT - AIR RESOURCES BRANCH AUG 01, 1984

POLLUTANT = WIND SPEED 2.75-250 FT UNITS = KILOMETRES/HOUR

STATION - SW NO 14016 OPPOSITE LAMBTON GS HWY40 COURTRIGHT MONTH - JUL 84

HOUR DAY	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	MEAN
1	18	15	14	14	17	10	8	10	12	10	15	17	19	21	20	19	18	19	16	11	8	3	5	2	13
2	4	4	3	4	2	2	3	7	9	8	13	12	3	13	12	16	14	10	9	12	12	17	14	13	9
3	14	14	13	13	11	12	9	8	11	15	18	22	24	22	25	21	18	17	11	12	14	15	11	8	15
4	11	15	16	12	11	9	8	13	9	6	5	13	17	13	16	4	10	11	7	8	14	9	7	11	11
5	11	8	7	7	7	7	6	5	4	-	4	13	26	24	22	19	18	13	14	16	15	17	18	21	13
6	19	17	12	7	11	14	18	6	16	21	****	19	14	13	18	26	31	35	31	26	21	24	17	15	19
7	16	13	11	14	12	12	14	30	35	32	27	26	19	20	16	15	19	15	13	11	7	5	5	6	16
8	5	5	6	7	12	7	8	5	4	4	3	7	7	6	10	11	18	18	16	15	21	21	20	18	11
9	16	18	17	16	17	20	19	26	24	25	27	-	38	37	38	35	26	27	27	30	24	13	13	21	24
10	13	22	17	20	21	13	2	8	13	12	10	12	17	20	16	12	11	10	15	5	13	11	14	22	14
11	22	23	14	20	15	18	16	13	16	16	10	15	17	19	13	16	18	14	15	12	15	16	18	9	16
12	7	5	5	7	7	6	7	12	13	16	18	20	22	28	22	20	20	15	5	7	9	2	1	7	12
13	6	6	7	3	3	6	5	7	9	12	11	12	13	14	21	27	24	19	17	15	14	14	12	11	12
14	13	12	11	11	8	8	12	11	12	12	14	19	21	22	23	24	26	29	26	22	19	15	11	14	16
15	15	16	14	17	17	17	16	18	20	22	23	26	21	21	29	27	24	20	21	16	26	17	15	15	20
16	15	16	14	18	19	20	19	21	24	-	25	28	28	27	25	22	22	24	17	12	7	11	14	8	19
17	1	9	10	13	12	15	18	20	22	24	22	19	20	26	35	34	31	23	22	24	****	****	15	13	19
18	14	12	13	12	14	16	20	22	21	20	22	24	23	19	17	17	18	17	15	-	****	6	8	8	16
19	5	6	13	12	16	8	11	13	14	17	13	14	14	18	17	22	28	28	25	21	20	17	18	17	16
20	16	15	14	15	17	18	18	16	20	20	****	24	****	29	28	30	31	32	27	30	28	18	****	10	22
21	8	7	8	6	8	10	7	4	3	5	4	8	9	1	16	19	17	19	19	13	12	12	10	12	10
22	11	9	5	1	5	3	5	2	-	9	14	17	17	18	22	26	25	25	21	20	21	23	18	17	15
23	13	13	10	11	14	18	16	17	20	24	23	29	32	30	26	26	24	-	11	30	****	****	****	****	20
24	****	****	****	****	****	****	****	****	****	****	****	10	8	13	14	21	21	20	20	18	14	14	13	16	******
25	7	7	11	12	11	11	11	10	8	3	3	5	6	5	14	16	17	18	18	16	14	15	17	15	11
26	17	9	8	7	7	11	14	12	11	12	15	12	13	12	7	17	17	11	12	14	11	11	3	5	11
27	7	13	14	16	14	10	10	15	12	20	19	21	21	18	26	****	26	24	22	19	22	16	11	13	17
28	13	14	-	10	10	11	10	10	15	18	26	19	20	16	22	18	22	19	18	15	14	7	8	10	15
29	10	10	****	9	8	8	8	6	14	14	14	12	11	17	15	13	14	14	13	14	11	10	7	2	11
30	5	8	4	2	3	1	2	2	4	9	3	2	8	11	18	18	15	16	19	13	18	17	11	10	9
31	11	9	8	5	4	3	5	5	11	14	15	19	19	23	25	34	33	24	26	22	20	18	17	17	16
MEAN	11	12	11	11	11	11	11	12	14	15	15	17	18	19	20	21	21	20	18	17	16	14	12	12	14.8

PERCENTAGE OF DATA VALID - 95.8 PERCENTAGE OF DATA INVALID - 3.2 PERCENTAGE OF DATA UNAVAILABLE - 0.9

NOTES 1. "****" INDICATES INVALID DATA DUE TO INSTRUMENTATION FAILURE

2. "-" INDICATES DATA IS UNAVAILABLE

3. "******" INDICATES LESS THAN 2/3 VALID DATA FOR DAILY MEAN IN ONE DAY

4. "DATA UNAVAILABLE" AND "DATA INVALID" ARE USED INTERCHANGEABLY FOR PRE-1976 DATA

ONTARIO MINISTRY OF THE ENVIRONMENT - AIR RESOURCES BRANCH AUG 01, 1984

POLLUTANT - WIND SPEED 3 OVER 250 FT UNITS - KILOMETRES/HOUR

STATION - SW NO 14016 OPPOSITE LAMBTON GS HWY40 COURTRIGHT MONTH - JUN 84

HOUR DAY	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	MEAN
1	20	20	26	22	16	14	2	6	3	****	10	****	8	3	4	9	11	20	20	20	24	23	23	23	15
2	28	22	21	27	18	20	22	10	10	16	17	17	21	24	24	25	27	22	19	17	22	21	23	11	20
3	13	30	35	34	27	31	29	24	27	25	28	32	40	33	25	24	18	12	8	12	19	26	40	36	26
4	31	24	27	33	31	28	31	20	12	22	24	26	24	21	22	21	21	21	19	19	22	25	25	32	24
5	****	****	27	26	27	27	-	****	13	-	-	31	27	30	28	27	33	34	37	38	34	-	32	30	29
6	31	30	29	32	29	27	25	21	21	17	22	22	21	25	26	-	****	2	2	2	2	2	2	2	18
7	2	2	2	3	2	2	2	2	2	2	2	****	****	****	****	****	****	****	****	****	****	****	****	****	******
8												- DATA INVALID -													
9	****	****	****	12	11	11	9	8	6	7	5	4	7	10	8	11	12	7	9	12	10	8	5	3	8
10	8	13	17	15	14	14	15	14	15	16	16	19	18	17	18	17	16	16	15	13	12	11	15	14	15
11	15	13	12	13	12	-	13	14	12	9	8	5	7	8	9	8	8	8	7	7	8	8	9	10	10
12	10	10	11	13	14	14	13	12	13	14	14	13	14	15	-	13	-	15	14	13	15	15	13	14	13
13	15	13	12	14	11	8	7	6	5	4	9	4	7	7	10	10	10	11	14	11	13	5	12	13	10
14	11	9	13	****	10	8	7	9	9	11	13	13	12	14	15	17	15	16	15	12	****	12	12	8	12
15	8	8	10	10	11	10	9	7	10	15	11	4	6	9	17	27	24	19	22	20	23	18	15	21	14
16	16	13	22	26	32	35	25	17	21	15	16	19	18	15	18	19	15	16	19	25	24	23	20	23	21
17	20	20	27	26	29	****	****	****	32	16	20	24	20	21	24	****	****	21	24	28	28	6	****	****	23
18	****	****	****	****	****	****	****	****	****	****	****	22	34	33	28	24	24	27	27	22	18	14	9	10	******
19	13	23	22	12	7	15	14	14	17	****	****	13	20	18	19	25	28	29	27	28	27	28	27	21	20
20	22	21	19	24	28	22	15	14	10	8	9	12	16	18	23	25	25	27	26	24	24	25	21	16	20
21	8	5	8	-	11	13	13	13	11	15	10	7	8	10	21	18	20	18	19	23	26	18	17	15	14
22	15	17	14	16	12	23	28	20	21	28	25	21	24	26	25	23	18	24	22	22	27	25	26	25	22
23	26	24	21	22	24	20	22	16	17	21	19	20	20	22	18	17	22	24	29	25	6	15	20	20	20
24	15	16	22	24	26	25	25	24	****	27	31	33	38	37	****	31	29	27	23	39	34	27	24	20	27
25	25	27	30	31	29	33	29	15	15	22	27	34	30	30	29	25	16	13	17	16	16	13	20	22	24
26	19	15	11	16	12	9	14	11	11	14	19	19	17	20	27	33	31	30	29	33	35	35	35	25	22
27	34	39	38	37	39	37	38	30	41	46	32	33	46	51	42	40	35	32	34	34	30	31	27	21	36
28	29	32	30	28	27	22	21	10	11	16	21	29	25	28	28	23	20	16	20	17	23	26	29	30	23
29	27	26	24	19	20	25	21	24	22	24	14	18	23	26	27	24	27	28	29	24	24	28	18	23	24
30	31	25	25	23	26	29	22	21	21	27	31	25	34	34	****	36	30	31	33	32	23	22	30	30	28
MEAN	19	19	21	21	20	20	18	15	15	17	17	19	21	22	21	22	21	20	21	21	21	19	20	19	19.6

PERCENTAGE OF DATA VALID - 88.9 PERCENTAGE OF DATA INVALID - 9.9 PERCENTAGE OF DATA UNAVAILABLE - 1.3

NOTES 1. "*****" INDICATES INVALID DATA DUE TO INSTRUMENTATION FAILURE

2. "-" INDICATES DATA IS UNAVAILABLE

3. "******" INDICATES LESS THAN 2/3 VALID DATA FOR DAILY MEAN IN ONE DAY

4. "DATA UNAVAILABLE" AND "DATA INVALID" ARE USED INTERCHANGEABLY FOR PRE-1976 DATA

ONTARIO MINISTRY OF THE ENVIRONMENT - AIR RESOURCES BRANCH AUG 01, 1984

POLLUTANT - WIND SPEED 3 OVER 250 FT UNITS - KILOMETRES/HOUR

STATION - SW NO 14016 OPPOSITE LAMBTON GS HWY40 COURTRIGHT MONTH - JUL 84

HOUR DAY	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	MEAN
1	30	28	29	32	30	24	18	15	14	13	18	19	24	28	26	****	25	23	19	13	11	7	3	4	20
2	6	8	9	9	8	6	8	10	10	8	13	12	6	13	14	20	18	8	10	16	20	25	28	23	13
3	23	28	29	29	24	26	22	13	12	17	20	22	24	25	25	23	19	24	16	17	18	22	21	21	22
4	20	25	27	22	22	19	15	14	10	5	2	14	18	15	16	6	12	13	8	11	15	13	15	20	15
5	23	25	23	23	23	17	17	11	6	-	1	11	25	25	29	28	23	15	18	24	24	28	33	33	21
6	31	28	22	12	20	22	28	7	22	30	23	21	19	15	20	32	37	38	36	35	27	28	25	24	25
7	28	26	21	24	24	25	23	33	38	34	30	27	21	24	18	17	20	17	17	16	14	16	16	18	23
8	20	20	26	25	22	21	18	12	5	6	4	6	9	7	8	13	19	17	16	19	31	31	30	28	17
9	26	32	24	25	26	29	30	28	27	28	28	-	42	36	40	38	32	27	31	34	29	17	19	31	30
10	20	33	28	30	31	24	13	5	16	14	12	16	19	24	17	14	14	9	19	8	22	19	26	37	20
11	35	30	24	33	28	32	29	22	21	23	16	26	27	26	17	20	22	16	19	19	28	33	35	28	25
12	26	20	25	27	27	26	18	15	14	17	20	20	23	30	24	22	21	24	12	13	16	7	7	8	19
13	9	13	13	13	11	15	19	19	13	13	14	13	14	14	23	29	26	21	21	22	20	20	24	28	18
14	28	34	28	23	23	23	22	15	14	15	16	21	24	25	23	27	29	32	32	29	31	27	23	26	25
15	26	28	25	26	29	32	28	25	25	26	26	28	27	29	34	31	28	26	27	25	36	30	31	32	28
16	33	35	31	35	33	33	26	24	25	-	28	34	30	29	31	24	26	26	20	18	16	19	25	15	27
17	7	14	21	26	23	25	28	28	25	25	26	25	25	26	37	39	35	26	24	28	****	****	28	26	26
18	32	26	25	25	28	30	28	25	24	21	24	23	23	20	18	21	21	23	22	-	5	1	7	11	21
19	15	21	29	29	23	22	23	19	15	18	15	14	15	18	17	21	27	28	28	25	28	27	28	26	22
20	26	25	24	27	27	27	29	23	22	20	****	25	****	27	31	30	36	33	31	33	31	22	****	9	27
21	16	7	10	9	14	20	15	8	3	4	3	6	8	3	18	21	20	21	20	18	20	18	13	17	13
22	21	20	15	10	8	12	17	13	-	9	13	15	18	18	21	25	24	25	21	24	29	34	27	28	19
23	23	22	21	24	28	29	27	25	22	27	28	29	34	31	29	28	26	-	17	33	****	****	****	****	26
24	****	****	****	****	****	****	****	****	****	****	****	11	10	13	17	22	20	20	24	25	23	26	25	29	******
25	17	14	13	18	18	19	16	12	7	4	3	6	7	4	15	19	18	18	19	22	23	19	22	26	15
26	25	18	19	18	18	18	21	15	11	12	14	11	12	13	8	21	23	15	17	18	17	11	8	4	15
27	8	14	18	23	27	19	16	19	17	25	20	28	24	21	27	31	39	37	32	****	18	23	22	20	23
28	22	23	-	19	****	23	21	16	****	22	****	****	25	****	****	****	25	25	25	24	22	17	15	16	21
29	17	17	****	22	20	19	20	12	14	11	16	12	14	16	17	16	****	15	14	18	20	19	15	8	16
30	3	16	14	11	11	11	11	10	8	8	2	3	7	8	14	17	15	15	19	18	22	23	22	20	13
31	19	20	21	20	18	15	11	11	13	12	13	13	11	14	16	23	21	17	17	****	18	17	17	19	16
MEAN	21	22	22	22	22	22	21	17	16	17	16	18	20	20	22	23	24	22	21	22	22	21	21	21	20.6

PERCENTAGE OF DATA VALID - 94.8 PERCENTAGE OF DATA INVALID - 4.3 PERCENTAGE OF DATA UNAVAILABLE - 0.9

NOTES 1. "*****" INDICATES INVALID DATA DUE TO INSTRUMENTATION FAILURE

2. "-" INDICATES DATA IS UNAVAILABLE

3. "******" INDICATES LESS THAN 2/3 VALID DATA FOR DAILY MEAN IN ONE DAY

4. "DATA UNAVAILABLE" AND "DATA INVALID" ARE USED INTERCHANGEABLY FOR PRE-1976 DATA

POLLUTANT - WIND SPEED 1 BELOW 25 FT UNITS - KILOMETRES/HOUR

STATION - SW NO 14062 242 INDIAN ROAD SOUTH, SARNIA MONTH - JUN 84

HOUR / DAY	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	MEAN
1	4	7	4	2	0	0	2	0	0	4	5	7	6	7	6	10	7	4	2	6	3	2	1	0	4
2	0	0	0	0	0	0	6	7	8	9	9	10	13	12	14	14	13	11	13	15	11	5	3	0	7
3	8	17	14	7	7	11	15	11	11	13	17	16	12	7	7	6	5	5	5	0	5	6	4	5	9
4	5	4	4	4	4	4	5	5	9	9	12	15	11	11	10	11	7	5	2	0	0	0	0	4	6
5	5	0	0	0	2	4	4	5	10	12	14	14	14	14	15	15	14	11	11	14	7	10	7	4	9
6	5	9	9	6	7	10	15	9	8	13	15	12	14	9	8	7	6	9	12	11	13	13	8	7	10
7	6	8	9	9	10	11	11	14	15	14	17	21	17	24	22	19	21	10	14	17	12	11	8	10	14
8	10	13	11	17	15	15	20	20	26	30	32	34	21	18	12	19	16	16	17	17	13	13	13	7	18
9	10	14	10	9	9	4	7	9	6	8	4	4	3	3	2	16	14	28	8	5	0	5	2	0	8
10	0	0	4	6	4	8	13	20	20	24	27	22	29	28	22	17	17	12	6	6	3	9	5	10	13
11	10	10	3	6	12	17	14	14	6	6	5	5	6	5	2	4	2	2	2	0	0	0	0	0	5
12	2	1	3	3	5	7	12	12	16	16	19	20	21	21	18	19	16	13	11	8	7	8	4	6	11
13	6	7	4	2	1	1	2	4	4	4	7	3	2	6	11	6	8	10	32	6	3	6	7	7	6
14	22	19	15	6	4	6	11	10	10	11	17	14	18	17	18	16	21	15	9	6	7	5	2	2	12
15	2	6	6	7	6	7	6	5	3	3	5	5	7	7	12	6	57	10	2	4	2	0	0	2	7
16	0	0	0	0	1	2	7	10	12	7	6	11	9	10	10	12	9	9	7	9	9	8	6	4	7
17	6	7	10	11	7	9	13	10	10	8	6	9	4	9	11	11	6	6	4	4	6	3	2	1	7
18	2	5	5	2	2	3	9	12	14	7	9	12	15	11	10	11	10	6	7	3	0	0	0	0	6
19	0	0	0	0	0	2	6	7	4	10	11	7	****	****	5	4	4	5	5	9	7	6	2	5	5
20	2	2	4	3	5	4	1	2	3	2	11	7	3	6	4	6	5	4	6	5	7	4	2	0	4
21	2	2	0	0	0	0	4	3	3	7	4	4	2	2	6	6	4	2	4	9	3	4	1	0	3
22	0	0	0	0	0	0	0	6	10	10	13	15	15	14	11	10	9	11	10	6	2	2	7	10	7
23	10	7	6	3	4	7	6	2	11	11	11	10	11	15	11	8	9	4	9	12	0	3	4	2	7
24	1	1	7	8	7	2	9	8	5	9	11	10	6	10	14	9	10	11	11	7	11	11	3	3	8
25	4	6	5	6	6	5	5	4	7	10	14	13	13	17	5	3	3	6	6	92	5	5	2	0	10
26	0	0	0	0	0	0	2	3	5	9	9	11	9	15	14	16	16	13	14	11	6	11	10	13	8
27	11	11	9	11	10	15	16	16	14	24	27	15	21	20	22	16	22	11	13	12	7	9	10	4	15
28	3	7	6	5	4	4	4	5	5	3	10	10	7	7	9	9	12	4	4	4	3	3	9	5	6
29	3	1	1	1	2	2	8	8	9	3	3	6	9	8	82	6	5	11	9	11	11	11	10	11	10
30	6	10	12	11	5	7	8	9	5	15	14	16	14	17	17	15	12	107	3	13	10	8	10	8	15
MEAN	5	6	5	5	5	6	8	8	9	10	12	12	11	12	14	11	12	12	9	11	6	6	5	4	8.5

PERCENTAGE OF DATA VALID - 99.7 PERCENTAGE OF DATA INVALID - 0.3 PERCENTAGE OF DATA UNAVAILABLE - 0.0

NOTES 1. "****" INDICATES INVALID DATA DUE TO INSTRUMENTATION FAILURE

2. "-" INDICATES DATA IS UNAVAILABLE

3. "*****" INDICATES LESS THAN 273 VALID DATA FOR DAILY MEAN IN ONE DAY

4. "DATA UNAVAILABLE" AND "DATA INVALID" ARE USED INTERCHANGEABLY FOR PRE-1976 DATA

ONTARIO MINISTRY OF THE ENVIRONMENT - AIR RESOURCES BRANCH DEC 04, 1984

POLLUTANT - WIND SPEED 1 BELOW 75 FT UNITS - KILOMETRES/HOUR

STATION - SW NO 14002 242 INDIAN ROAD SOUTH, SARNIA MONTH - JUL 84

HOUR DAY	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	MEAN
1	10	7	6	6	7	6	5	7	6	8	9	4	4	4	5	5	8	2	3	3	1	0	0	0	5
2	0	0	0	0	0	0	0	0	3	5	2	60	5	3	2	0	12	7	3	3	3	3	5	2	5
3	0	5	4	6	5	3	2	4	6	8	7	10	14	12	10	11	10	11	9	7	2	2	5	1	6
4	3	2	6	3	4	4	4	5	4	2	2	5	4	3	5	2	2	2	0	3	1	2	2	5	3
5	6	6	4	4	4	2	2	1	2	2	6	7	10	7	9	10	10	10	10	7	7	4	8	8	6
6	8	7	4	2	2	2	6	10	10	13	10	8	6	6	12	12	18	18	19	16	12	9	9	6	9
7	5	7	7	6	5	4	9	16	16	12	6	11	8	7	7	8	7	10	6	1	0	0	0	0	7
8	0	0	0	0	0	0	2	2	3	2	3	5	3	2	2	10	3	6	6	6	7	7	8	5	3
9	7	6	4	4	9	10	10	10	11	13	14	16	20	20	21	18	14	13	10	10	4	4	7	15	11
10	9	6	7	5	2	1	3	4	8	9	5	5	8	8	2	3	3	2	3	2	2	5	7	12	5
11	12	8	10	12	12	9	3	2	5	9	11	12	9	5	6	12	6	4	4	4	4	2	5	5	7
12	2	2	3	3	5	5	6	6	8	9	11	14	8	11	10	9	5	0	2	1	0	0	0	0	5
13	0	0	0	0	0	2	3	8	8	10	8	5	4	7	10	11	9	5	2	2	4	1	5	4	5
14	4	4	4	1	1	3	6	4	5	5	7	7	13	12	9	12	16	12	14	5	5	3	3	2	7
15	2	2	1	3	5	5	8	9	12	14	17	14	14	14	17	16	10	8	6	7	5	5	6	9	9
16	6	3	5	5	5	5	9	7	14	14	13	15	14	7	8	11	10	8	4	1	2	0	0	0	7
17	0	2	4	4	6	6	9	8	14	10	-	-	-	-	-	-	-	-	-	-	-	-	-	-	******
18	- DATA UNAVAILABLE -																								
19	- DATA UNAVAILABLE -																								
20	- DATA UNAVAILABLE -																								
21	- DATA UNAVAILABLE -																								
22	- DATA UNAVAILABLE -																								
23	- DATA UNAVAILABLE -																								
24	- DATA UNAVAILABLE -																								
25	- DATA UNAVAILABLE -																								
26	- DATA UNAVAILABLE -																								
27	- DATA UNAVAILABLE -																								
28	- DATA UNAVAILABLE -																								
29	- DATA UNAVAILABLE -																								
30	- DATA UNAVAILABLE -																								
31	- DATA UNAVAILABLE -																								
MEAN	4	4	4	4	4	4	5	6	8	9	-	12	8	8	8	9	9	7	6	5	4	3	4	5	6.3

PERCENTAGE OF DATA VALID - 53.0 PERCENTAGE OF DATA INVALID - 0.0 PERCENTAGE OF DATA UNAVAILABLE - 47.0

NOTES 1. "*****" INDICATES INVALID DATA DUE TO INSTRUMENTATION FAILURE

2. "-" INDICATES DATA IS UNAVAILABLE

3. "******" INDICATES LESS THAN 2/3 VALID DATA FOR DAILY MEAN IN ONE DAY

4. "DATA UNAVAILABLE" AND "DATA INVALID" ARE USED INTERCHANGEABLY FOR PRE-1976 DATA

... DEPARTMENT - AIR RESOURCES BRANCH NOV 14, 1984

POLLUTANT - ... UNITS - MICROGRAMS/CUBIC METER

STATION - ... PARKFIELD - COUNTY PUMPING STATION MONTH - JUN 84

HOUR DAY	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	MEAN
1	9	17	16	5	7	1	4	4	4	6	11	11	7	10	12	12	12	12	7	2	0	0	0	0	7
2	0	4	4	0	0	0	2	5	11	9	13	12	16	7	3	10	14	14	12	15	16	17	5	0	8
3	0	0	2	16	17	10	15	20	23	26	25	17	20	15	7	14	10	5	4	3	5	8	12	10	12
4	7	2	4	2	4	2	1	1	15	19	19	15	15	12	13	8	4	12	6	0	6	8	7	11	9
5	5	6	2	9	10	13	9	4	4	7	11	15	17	21	15	16	14	13	10	15	13	13	11	10	12
6	11	9	5	7	4	4	9	12	13	17	12	13	16	2	3	2	12	14	14	13	11	11	9	10	10
7	12	8	6	5	5	6	10	15	15	8	9	15	15	20	22	17	23	6	12	11	10	10	12	11	12
8	9	9	****	****	****	****	****	****	20	24	30	35	27	33	23	22	18	25	25	16	20	23	18	15	13	22
9	12	12	8	5	7	7	5	12	15	12	9	2	16	8	2	4	7	10	5	0	4	0	6	8	7
10	9	9	9	9	12	15	24	24	20	19	15	22	15	25	25	33	23	11	10	9	0	0	9	11	15
11	5	11	9	15	15	23	20	15	21	17	17	17	14	18	15	12	7	4	0	5	5	0	4	5	12
12	5	5	5	5	7	7	5	12	15	12	19	5	17	15	12	10	10	12	12	10	12	9	15	7	10
13	9	5	6	9	0	0	0	0	1	2	9	11	6	11	7	8	9	9	14	12	0	0	0	3	5
14	5	14	10	10	10	5	17	20	15	15	21	20	23	22	27	25	30	22	21	16	10	9	3	6	16
15	9	4	5	11	5	2	0	0	5	5	3	9	7	15	15	11	11	12	7	7	0	4	2	4	7
16	4	4	4	2	3	5	3	14	15	12	9	13	12	10	9	5	10	10	5	6	6	7	7	6	9
17	5	9	14	14	8	11	15	21	17	9	11	11	7	9	13	13	10	11	12	12	5	4	3	8	11
18	5	7	9	5	5	1	4	10	17	12	13	15	21	16	13	15	13	15	13	12	5	2	0	1	10
19	10	2	1	6	6	2	3	13	12	14	13	12	12	10	13	12	9	10	9	9	5	0	4	3	7
20	0	0	0	0	2	3	1	11	7	4	2	9	2	7	12	13	12	8	8	6	4	5	1	0	5
21	0	0	0	0	0	0	2	2	****	2	2	5	2	2	10	15	11	11	11	8	5	2	0	0	4
22	1	1	2	0	2	3	4	13	15	14	11	14	9	5	7	3	7	13	12	12	11	11	9	11	8
23	12	12	7	13	11	11	9	11	13	14	13	15	15	20	19	14	11	9	14	11	12	10	10	6	12
24	9	2	5	9	5	10	13	11	14	14	17	17	12	17	15	22	19	15	14	8	6	18	12	3	12
25	4	3	1	2	3	3	3	4	7	12	17	11	17	16	17	13	11	8	6	6	1	1	0	0	7
26	0	0	0	0	1	0	1	4	4	5	5	7	5	7	5	10	11	11	13	11	9	10	15	14	6
27	17	13	11	11	12	12	14	11	14	15	17	17	9	15	19	27	19	16	15	14	13	12	7	8	14
28	5	6	3	4	10	9	5	4	4	7	9	15	17	17	17	15	12	9	8	1	0	9	7	9	9
29	7	2	4	6	5	5	7	11	13	10	11	12	13	15	15	19	15	15	11	11	9	12	9	7	10
30	5	10	7	8	5	3	5	4	6	9	12	15	15	15	19	24	17	19	13	10	0	0	0	3	9
MEAN	7	6	5	7	6	6	7	11	13	12	13	13	13	14	14	14	14	12	10	9	7	7	6	6	9.9

PERCENTAGE OF DATA VALID - ...% PERCENTAGE OF DATA INVALID - 0.0% PERCENTAGE OF DATA UNAVAILABLE - 0.0

NOTES 1. "****" INDICATES INVALID DATA DUE TO INSTRUMENTATION FAILURE

2. "-" INDICATES DATA IS UNAVAILABLE

3. "******" INDICATES LESS THAN 22 VALID DATA FOR DAILY MEAN IN ONE DAY

4. "DATA UNAVAILABLE" AND "-" ARE USED INTERCHANGEABLY FOR 1975-1979 DATA

[redacted] DIVISION OF THE ENVIRONMENT - AIR RESOURCES BRANCH NOV 19, 1984

POLLUTANT - WIND SPEED (SCC 73-1) UNITS - KILOMETERS/HOUR

STATION - 38 NO 13115 PUTTABLE WATER PUMPING STATION MONTH - JUL 84

HOUR / DAY	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	MEAN
1	2	2	0	0	3	0	0	0	2	10	9	11	15	17	14	14	18	14	11	8	4	0	0	0	5
2	0	1	1	0	0	0	1	0	0	1	1	3	3	3	6	2	7	3	7	5	4	0	5	6	2
3	5	3	3	5	4	4	3	5	11	11	10	12	11	9	10	9	11	6	5	6	7	8	7	2	7
4	3	0	0	1	4	2	5	2	2	3	5	4	9	12	5	8	0	0	0	6	5	0	0	0	4
5	0	0	4	4	0	0	0	0	0	0	3	2	9	9	0	12	5	5	11	4	9	6	9	7	4
6	11	8	4	4	5	2	10	2	13	6	10	11	12	7	10	6	9	22	21	18	15	13	5	9	10
7	15	13	17	13	16	15	14	17	14	19	20	15	21	20	15	15	12	9	1	0	0	0	0	0	12
8	3	3	2	0	0	0	0	0	0	0	2	10	12	15	8	1	4	4	2	4	6	6	6	5	4
9	4	5	3	3	1	6	10	11	11	14	12	15	15	21	19	22	15	13	11	15	10	6	11	10	11
10	11	10	5	7	7	5	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	******
11	- DATA INVALID -																								
12	- DATA INVALID -																								
13	****	****	****	****	****	****	****	****	****	10	8	7	5	5	5	12	9	9	4	4	5	5	8	7	******
14	4	3	2	4	1	0	2	3	5	11	10	11	9	11	10	11	8	7	7	7	6	6	5	6	6
15	5	5	5	7	6	7	8	9	11	13	17	17	13	12	7	15	15	9	3	1	8	4	4	4	8
16	5	5	4	5	7	7	13	17	20	20	21	23	17	15	11	7	4	2	0	0	0	0	0	0	9
17	4	9	7	4	2	6	9	13	13	13	7	5	12	17	12	10	14	3	6	7	4	2	3	4	8
18	3	1	0	0	0	2	4	5	5	5	11	22	22	21	18	18	15	13	5	2	2	1	0	0	7
19	0	0	5	5	4	5	5	5	8	11	10	8	10	8	5	2	8	8	5	5	6	5	5	4	5
20	5	3	3	1	5	5	7	8	6	10	7	10	14	13	10	11	5	4	4	6	6	11	4	3	7
21	3	1	0	0	4	0	3	0	2	2	2	2	5	10	14	12	10	4	1	0	0	0	0	0	3
22	0	0	0	0	0	0	2	4	4	5	3	2	5	5	4	5	3	2	0	6	3	3	4	4	3
23	5	8	7	4	8	5	7	10	13	15	15	15	13	13	12	6	3	1	5	13	11	13	15	14	10
24	13	8	9	5	2	5	9	7	7	10	10	12	12	14	17	14	13	11	6	3	2	3	1	0	8
25	0	0	0	0	0	0	0	0	1	0	5	13	13	15	17	13	11	6	4	0	0	0	1	0	4
26	2	2	4	2	5	2	2	2	2	0	4	5	7	7	0	5	0	0	0	2	1	1	1	0	3
27	2	2	0	0	0	0	0	7	7	11	14	13	25	28	25	23	22	17	11	8	3	3	0	0	10
28	0	0	0	0	0	0	1	0	7	9	12	14	17	21	25	20	15	12	3	0	0	0	0	0	7
29	0	0	1	0	2	1	1	2	2	5	2	0	10	10	10	11	7	2	2	0	0	0	2	1	3
30	0	2	0	0	0	0	1	2	3	4	5	4	9	10	7	4	2	1	6	2	2	1	0	2	3
31	7	4	4	4	4	2	4	[illegible]	12	13	10	10	14	16	11	8	10	5	4	6	5	3	3	1	7
MEAN	4	4	3	3	3	3	4	5	7	9	9	10	12	13	11	11	9	7	5	5	4	4	4	3	6.3

PERCENTAGE OF DATA VALID = 89.9 PERCENTAGE OF DATA INVALID = 10.1 PERCENTAGE OF DATA UNAVAILABLE = 0.0

NOTES 1. "******" INDICATES INVALID DATA DUE TO INSTRUMENTATION FAILURE

2. "-" INDICATES DATA IS UNAVAILABLE

3. "******" INDICATES LESS THAN 22% VALID DATA FOR DAILY MEAN IN THE DAY

4. "DATA UNAVAILABLE" AND "DATA INVALID" ARE USED INTERCHANGEABLY FOR PRE-1975 DATA

ONTARIO MINISTRY OF THE ENVIRONMENT - AIR RESOURCES BRANCH AUG 01, 1984

POLLUTANT - WIND SPEED 1 BELOW 75 FT UNITS - KILOMETRES/HOUR

STATION - SW NO 18013 BRUCE NUCLEAR SITE,TIVERTON MONTH - JUN 84

HOUR DAY	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	MEAN
1	4	4	7	3	4	4	4	6	7	****	4	****	5	7	7	9	11	18	8	6	6	8	10	4	7
2	1	1	6	5	5	12	7	6	5	11	10	8	1	8	7	8	4	7	8	5	7	6	15	20	7
3	14	12	12	13	19	12	****	11	8	5	3	5	10	10	12	14	13	16	17	25	24	25	21	23	14
4	23	21	23	22	22	21	20	19	21	19	16	13	16	15	16	18	16	19	20	18	13	17	21	18	19
5	****	****	****	****	****	****	-	****	24	-	-	17	18	22	23	24	20	13	9	11	12	-	14	20	******
6	19	19	30	34	32	29	28	28	25	24	25	21	23	23	22	-	****	9	12	16	17	19	22	21	23
7	23	24	26	22	25	19	21	23	24	23	22	19	****	****	24	25	26	25	28	21	16	12	19	****	22
8	26	24	22	19	****	28	27	30	33	35	40	39	35	37	36	35	31	33	31	33	31	28	23	22	30
9	27	26	23	29	30	31	****	22	22	22	18	11	8	4	9	8	11	15	10	7	7	8	9	8	16
10	8	6	12	12	19	24	17	21	29	30	30	32	31	28	31	26	25	25	27	30	29	27	30	32	24
11	27	27	19	14	15	-	29	26	24	26	21	17	12	6	6	5	7	10	6	6	5	6	8	7	14
12	8	12	12	13	15	15	17	20	21	23	22	****	30	30	-	31	-	27	24	19	26	20	22	24	21
13	19	19	8	6	8	5	4	5	8	9	8	6	8	6	6	1	3	4	4	1	5	7	8	10	7
14	11	7	7	11	20	20	14	13	18	26	27	23	21	21	17	15	15	17	22	22	18	14	12	7	17
15	7	10	10	10	8	9	10	10	9	11	16	17	15	16	14	16	12	13	13	9	7	7	6	6	11
16	5	8	9	9	8	6	3	9	12	11	6	8	5	9	4	4	10	11	12	9	11	12	10	7	8
17	14	19	15	9	7	****	****	****	11	13	19	18	23	27	24	****	****	18	19	16	12	****	21	21	17
18	****	****	****	****	****	****	****	****	25	25	23	20	5	5	2	3	3	2	4	3	6	9	10	11	10
19	12	10	10	13	13	9	7	10	8	7	6	6	5	8	5	8	12	5	4	4	5	6	7	6	8
20	8	6	8	7	10	8	10	9	4	12	15	20	17	17	18	17	15	14	12	12	11	7	8	8	11
21	10	8	10	-	12	9	5	6	6	8	8	10	12	12	10	7	10	7	5	8	9	8	6	5	8
22	9	8	9	12	14	7	4	8	8	9	8	4	8	11	12	9	6	12	9	9	7	****	10	9	9
23	10	12	14	13	14	11	12	13	13	14	12	7	8	9	6	10	10	7	9	10	7	10	9	10	10
24	8	11	10	18	20	23	20	21	****	17	17	14	17	17	****	12	14	13	13	22	17	18	19	15	16
25	14	21	25	21	20	19	17	16	14	13	11	12	12	11	10	6	8	10	8	11	10	8	6	11	13
26	6	10	6	5	5	3	6	12	15	14	17	16	19	21	23	22	21	22	20	16	14	15	16	15	14
27	17	18	19	22	27	31	27	24	21	19	25	26	27	24	24	26	23	29	29	26	26	24	25	26	24
28	25	25	24	26	27	27	24	****	****	17	14	21	19	20	****	18	13	15	17	16	12	8	7	7	18
29	4	1	4	5	5	9	9	8	7	9	8	8	6	6	8	6	6	8	7	9	10	6	4	9	7
30	7	5	5	4	2	3	6	7	7	9	****	10	9	11	11	14	14	14	13	9	9	9	7	5	8
MEAN	13	13	14	14	15	15	14	15	15	16	16	15	15	15	14	14	13	15	14	14	13	13	14	13	14.3

PERCENTAGE OF DATA VALID - 93.5 PERCENTAGE OF DATA INVALID - 5.3 PERCENTAGE OF DATA UNAVAILABLE - 1.3

NOTES 1. "****" INDICATES INVALID DATA DUE TO INSTRUMENTATION FAILURE

2. "-" INDICATES DATA IS UNAVAILABLE

3. "*****" INDICATES LESS THAN 2/3 VALID DATA FOR DAILY MEAN IN ONE DAY

4. "DATA UNAVAILABLE" AND "DATA INVALID" ARE USED INTERCHANGEABLY FOR PRE-1976 DATA

ONTARIO MINISTRY OF THE ENVIRONMENT - AIR RESOURCES BRANCH AUG 01, 1984

POLLUTANT - WIND SPEED 1 BELOW 75 FT UNITS - KILOMETRES/HOUR

STATION - SW NO 18013 BRUCE NUCLEAR SITE,TIVERTON MONTH - JUL 84

HOUR DAY	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	MEAN
1	3	3	1	2	2	2	2	5	****	****	****	****	7	****	8	****	****	****	****	****	****	1	2	6	******
2	6	4	4	5	3	3	5	8	8	****	****	****	****	****	12	15	****	****	****	****	****	8	10	14	******
3	16	17	16	16	13	16	18	16	****	****	****	20	****	****	19	****	18	****	****	****	****	15	14	15	******
4	22	12	16	16	14	****	****	****	****	****	****	****	****	****	15	****	9	****	****	****	****	8	****	7	******
5	11	12	12	10	6	4	****	****	****	-	****	10	8	****	****	****	7	****	****	****	****	****	13	16	******
6	17	19	9	7	6	15	****	****	****	****	****	****	****	****	****	****	****	****	****	8	****	20	28	29	******
7	28	27	28	27	28	31	****	****	****	29	31	****	****	23	21	****	****	****	15	****	15	12	12	6	******
8	8	9	7	9	13	10	****	14	****	****	****	****	****	19	****	****	****	****	****	****	****	7	8	9	******
9	14	15	16	14	13	11	****	15	16	****	****	-	****	****	****	****	****	****	****	****	****	14	15	9	******
10	9	11	9	7	6	****	5	6	****	****	****	****	****	****	4	4	3	6	5	5	5	5	8	10	6
11	7	12	19	24	34	34	26	23	24	19	15	12	16	16	19	10	7	6	7	7	10	10	13	14	16
12	12	16	14	13	7	8	10	11	18	18	19	19	13	7	10	11	10	7	11	12	7	6	12	11	12
13	6	8	10	7	10	16	13	15	14	11	9	13	14	15	17	21	23	22	20	19	22	21	23	25	16
14	22	21	19	18	20	20	22	21	18	18	16	16	16	18	21	20	23	20	18	16	13	19	19	18	19
15	24	24	25	25	25	23	26	28	22	25	26	23	25	24	21	23	20	20	19	15	13	11	17	16	22
16	6	1	2	7	9	20	23	26	25	-	22	22	22	20	18	17	14	11	8	4	9	6	6	7	13
17	9	10	11	13	14	13	15	17	16	22	21	23	27	26	29	27	18	16	17	17	****	****	12	7	17
18	4	8	8	8	6	10	14	9	10	11	11	14	15	14	11	18	21	19	13	-	16	18	20	20	13
19	21	18	8	8	15	18	22	24	26	26	27	25	24	23	22	27	21	24	21	21	18	18	13	14	20
20	16	12	12	14	15	10	5	15	20	20	****	21	****	18	9	4	5	5	3	3	5	3	****	5	10
21	3	1	5	1	9	10	7	6	5	6	7	7	7	5	7	7	7	7	7	7	5	5	4	2	6
22	2	2	2	2	3	3	3	0	-	9	11	12	12	14	15	15	15	16	13	13	13	20	25	24	11
23	28	31	30	34	31	30	32	27	30	30	29	30	29	26	19	20	21	-	15	10	11	14	21	26	25
24	27	25	25	24	23	20	15	14	11	12	18	18	18	16	17	17	22	23	25	27	26	26	22	16	20
25	16	14	8	6	6	4	4	6	4	6	8	9	9	10	11	10	8	4	5	5	6	6	6	7	7
26	8	9	9	8	6	7	7	7	11	10	7	9	16	15	11	8	13	10	12	12	14	13	10	5	10
27	9	14	14	12	13	11	14	17	19	20	21	24	25	25	23	21	20	19	16	17	19	18	18	18	18
28	15	13	-	6	7	8	5	4	8	9	9	9	12	14	14	16	15	15	11	9	6	5	4	1	9
29	1	2	****	2	2	1	2	1	4	5	6	7	8	8	9	7	5	4	3	4	5	4	7	10	5
30	9	8	8	7	12	11	11	15	16	14	14	17	11	13	14	13	11	11	10	11	9	6	8	11	11
31	18	18	17	18	18	17	17	16	18	17	18	20	20	16	19	19	21	19	19	19	16	16	17	19	18
MEAN	13	13	13	12	13	13	13	14	16	16	16	17	16	17	15	15	14	14	13	12	12	12	13	13	13.7

PERCENTAGE OF DATA VAL'D - 83.1 PERCENTAGE OF DATA INVALID - 16.0 PERCENTAGE OF DATA UNAVAILABLE - 0.9

NOTES 1. "****" INDICATES INVALID DATA DUE TO INSTRUMENTATION FAILURE

2. "-" INDICATES DATA IS UNAVAILABLE

3. "*****" INDICATES LESS THAN 2/3 VALID DATA FOR DAILY MEAN IN ONE DAY

4. "DATA UNAVAILABLE" AND "DATA INVALID" ARE USED INTERCHANGEABLY FOR PRE-1976 DATA

ONTARIO MINISTRY OF THE ENVIRONMENT - AIR RESOURCES BRANCH AUG 01, 1984

POLLUTANT - WIND SPEED 2 75-250 FT UNITS - KILOMETRES/HOUR

STATION - SW NO 18013 BRUCE NUCLEAR SITE, TIVERTON MONTH - JUN 84

HOUR DAY	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	MEAN
1	6	4	11	8	6	3	5	3	7	****	3	****	8	9	9	11	12	26	12	9	8	9	13	8	9
2	4	3	9	7	9	17	11	6	6	11	11	10	1	6	6	10	8	8	7	5	9	7	20	21	9
3	15	15	15	18	22	15	****	12	8	6	4	5	10	11	14	16	14	19	18	30	30	28	25	27	16
4	29	29	32	31	27	27	27	24	27	25	18	15	17	15	18	19	16	19	21	21	18	24	27	25	23
5	****	****	****	****	****	****	-	****	28	-	-	22	28	31	31	31	28	21	18	17	20	-	22	26	******
6	23	24	35	38	36	34	32	30	29	25	26	24	25	23	23	-	****	15	20	22	24	26	26	25	27
7	28	28	29	28	30	23	26	26	26	27	25	21	****	****	26	28	28	28	32	26	22	20	23	24	26
8	31	29	26	24	32	33	32	35	38	41	42	43	40	40	38	36	37	34	36	37	35	31	29	24	34
9	29	30	26	35	33	36	33	****	28	28	23	17	11	5	10	9	12	18	11	8	8	11	11	10	19
10	11	9	16	20	24	26	19	25	31	32	32	34	34	32	35	30	28	28	29	34	36	34	36	38	28
11	35	33	25	18	20	-	32	30	26	27	23	21	13	7	6	5	7	9	3	6	5	8	11	11	17
12	15	17	18	18	19	19	21	24	23	24	25	****	31	32	-	33	-	31	28	26	31	26	26	28	25
13	24	22	10	9	11	6	4	5	8	10	9	6	9	6	6	5	5	3	2	4	2	9	10	11	8
14	15	9	9	13	28	28	17	17	23	30	30	27	24	26	22	19	19	20	25	27	22	16	12	7	20
15	8	11	11	9	10	11	11	11	10	12	18	18	16	16	16	17	13	14	14	10	8	10	7	10	12
16	9	13	12	13	12	9	6	14	16	16	10	9	6	11	5	4	10	15	13	12	14	16	13	12	11
17	19	24	22	15	10	****	****	****	18	20	22	21	27	29	27	****	****	20	22	18	17	****	23	25	21
18	****	****	****	****	****	****	****	****	28	27	24	23	5	8	4	4	4	3	5	3	7	12	11	12	11
19	13	11	11	15	16	11	11	13	10	8	6	7	5	7	6	9	14	6	6	5	5	7	7	7	9
20	7	8	10	6	9	8	12	11	5	11	17	22	20	21	21	21	21	19	16	15	13	9	9	11	13
21	13	12	14	-	16	11	6	8	6	10	11	13	17	18	15	9	11	8	6	8	10	9	9	7	11
22	12	11	12	12	17	9	7	11	9	11	12	1	12	17	16	15	9	18	11	12	9	13	14	13	12
23	12	18	17	17	17	16	17	17	17	17	14	9	7	8	9	12	10	9	12	12	11	13	14	14	13
24	12	15	14	20	22	24	24	26	****	21	22	18	19	21	****	13	15	14	17	27	21	22	24	19	20
25	20	26	31	28	27	25	23	20	20	17	15	15	14	14	13	6	8	10	9	11	10	9	8	13	16
26	10	12	8	6	7	7	7	12	16	15	17	18	21	22	25	24	23	25	23	21	22	25	25	26	17
27	24	30	31	29	31	34	28	27	24	22	29	29	30	29	29	32	30	35	34	31	32	29	29	29	29
28	29	29	29	30	33	31	28	****	****	19	16	22	19	21	****	21	14	16	19	18	14	10	9	7	21
29	4	1	6	6	6	11	10	10	9	10	9	10	6	7	8	7	6	9	8	10	12	7	6	11	8
30	8	6	7	5	5	5	7	7	7	10	****	15	11	14	13	20	20	16	16	10	10	10	9	6	10
MEAN	17	17	18	18	19	18	18	17	18	19	18	18	17	17	17	17	16	17	16	17	16	16	17	17	17.2

PERCENTAGE OF DATA VALID - 93.9 PERCENTAGE OF DATA INVALID - 4.9 PERCENTAGE OF DATA UNAVAILABLE - 1.3

NOTES 1. "*****" INDICATES INVALID DATA DUE TO INSTRUMENTATION FAILURE

2. "-" INDICATES DATA IS UNAVAILABLE

3. "*****" INDICATES LESS THAN 2/3 VALID DATA FOR DAILY MEAN IN ONE DAY

4. "DATA UNAVAILABLE" AND "DATA INVALID" ARE USED INTERCHANGEABLY FOR PRE-1976 DATA

ONTARIO MINISTRY OF THE ENVIRONMENT - AIR RESOURCES BRANCH AUG 01, 1984

POLLUTANT - WIND SPEED 2 75-250 FT UNITS - KILOMETRES/HOUR

STATION - SW NO 18013 BRUCE NUCLEAR SITE,TIVERTON MONTH - JUL 84

HOUR DAY	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	MEAN
1	5	5	3	5	6	5	3	5	****	7	7	****	7	10	8	****	****	****	****	****	****	3	4	7	6
2	7	6	4	4	5	6	7	9	9	****	****	****	17	15	15	15	****	****	****	****	****	15	16	19	11
3	20	23	21	21	18	20	19	18	****	****	****	22	****	****	21	****	20	****	****	****	****	20	16	19	******
4	27	16	19	20	14	****	****	****	****	****	****	****	****	****	16	****	10	****	****	****	****	11	12	12	******
5	15	14	14	12	9	4	****	****	****	-	****	13	10	****	****	****	8	****	****	****	****	****	19	20	******
6	21	21	12	8	7	16	****	****	****	****	****	****	16	20	****	****	****	****	****	****	****	22	29	31	******
7	29	30	29	30	31	32	****	****	****	32	32	****	****	27	****	****	****	****	19	****	16	13	13	9	******
8	11	10	10	13	15	12	****	15	****	****	****	****	****	21	****	****	****	****	****	****	****	11	13	13	******
9	17	20	18	18	17	17	****	21	****	****	****	-	****	****	****	****	****	****	****	****	****	16	17	14	******
10	14	17	12	9	10	****	****	****	****	****	****	****	****	****	5	5	2	7	7	5	7	8	10	12	******
11	10	15	22	28	39	40	27	26	28	27	20	14	21	23	22	13	8	7	7	8	11	11	14	17	19
12	15	19	17	16	8	8	11	13	18	20	20	21	14	8	11	9	10	10	13	14	10	10	14	12	13
13	8	12	15	13	17	20	14	15	15	13	11	15	16	16	18	22	24	25	23	23	26	28	27	29	19
14	24	25	21	22	23	23	25	22	19	21	18	17	18	20	21	22	24	22	22	19	18	22	24	23	21
15	30	30	26	29	27	26	30	32	28	29	28	28	26	28	25	26	22	23	23	20	18	14	20	19	25
16	6	3	2	7	12	22	24	28	26	-	24	24	24	21	19	19	15	13	9	5	10	8	9	10	15
17	14	16	16	17	18	18	19	22	21	25	24	24	27	28	32	29	20	19	21	19	****	****	14	9	21
18	7	9	9	10	7	11	15	10	11	13	13	15	18	17	16	21	24	22	16	-	21	24	26	24	16
19	23	19	10	11	17	19	24	25	28	28	29	26	27	26	24	30	21	25	22	23	21	22	17	19	22
20	21	17	18	20	18	14	8	19	23	21	****	23	****	21	11	5	6	5	4	2	5	4	****	8	13
21	5	4	5	3	11	12	8	7	6	7	8	8	8	6	8	9	9	7	8	8	6	6	5	3	7
22	3	3	5	3	0	3	6	0	-	9	11	12	13	15	17	17	18	18	17	18	20	24	28	28	13
23	29	35	34	35	35	38	36	31	35	33	31	34	30	28	22	23	25	-	21	14	14	19	26	33	29
24	33	31	33	32	29	26	19	15	12	14	22	21	20	20	20	22	27	27	33	35	33	30	30	18	25
25	18	15	11	9	8	7	6	6	5	6	9	10	11	12	13	11	9	5	6	6	7	8	9	10	9
26	13	14	14	15	12	11	11	11	12	10	8	11	18	17	12	10	15	12	13	15	16	17	11	7	13
27	10	17	18	14	16	15	18	21	21	22	24	26	28	28	26	27	24	23	20	22	22	22	22	23	21
28	21	17	-	8	9	10	7	5	8	11	12	12	17	19	19	20	21	19	14	11	8	7	6	4	12
29	2	1	****	6	4	2	1	2	6	5	7	8	9	8	11	8	6	5	3	4	7	7	12	14	6
30	13	14	11	12	16	16	16	17	19	15	15	17	13	14	15	12	12	11	10	12	12	11	15	17	14
31	23	23	21	21	23	22	20	18	18	19	20	21	21	19	21	20	21	22	23	22	18	20	19	22	21
MEAN	16	16	16	15	16	16	16	16	18	18	18	18	18	19	17	17	16	16	15	15	15	15	17	16	16.3

PERCENTAGE OF DATA VALID - 83.5 PERCENTAGE OF DATA INVALID - 15.6 PERCENTAGE OF DATA UNAVAILABLE - 0.9

NOTES 1. "*****" INDICATES INVALID DATA DUE TO INSTRUMENTATION FAILURE

2. "-" INDICATES DATA IS UNAVAILABLE

3. "*****" INDICATES LESS THAN 2/3 VALID DATA FOR DAILY MEAN IN ONE DAY

4. "DATA UNAVAILABLE" AND "DATA INVALID" ARE USED INTERCHANGEABLY FOR PRE-1976 DATA

ONTARIO MINISTRY OF THE ENVIRONMENT - AIR RESOURCES BRANCH AUG 01, 1984

POLLUTANT - WIND SPEED 3 OVER 250 FT UNITS - KILOMETRES/HOUR

STATION - SW NO 18013 BRUCE NUCLEAR SITE,TIVERTON MONTH - JUN 84

HOUR DAY	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	MEAN
1	13	7	8	7	6	6	5	2	2	****	4	****	11	12	14	18	22	35	17	16	17	19	20	17	13
2	16	12	22	23	19	21	20	11	9	12	14	12	7	2	2	14	10	3	4	7	11	11	28	29	13
3	22	21	18	25	28	22	****	18	12	10	10	12	13	14	17	22	22	30	29	33	38	34	33	41	23
4	52	58	61	58	58	52	50	46	42	37	25	15	18	19	21	29	26	28	28	27	30	35	36	36	37
5	****	****	****	****	****	****	-	****	37	-	-	26	25	28	34	30	28	25	25	27	29	-	35	32	******
6	35	36	50	48	44	41	37	39	35	32	33	27	24	26	24	-	****	28	32	33	36	35	33	37	35
7	38	41	42	42	41	34	35	33	30	36	29	25	****	****	35	39	38	38	40	35	31	32	31	34	35
8	41	42	33	35	****	40	39	42	42	47	50	58	51	53	49	49	48	49	49	51	51	50	43	38	46
9	38	42	46	46	45	44	42	****	32	32	29	20	13	10	8	8	13	20	13	6	12	18	20	19	25
10	25	18	24	32	38	36	27	32	37	40	43	43	47	44	48	42	46	42	50	53	54	46	48	56	40
11	57	56	35	25	30	-	45	41	35	34	26	24	15	10	7	6	7	7	4	5	9	8	17	24	23
12	28	30	31	32	32	32	31	28	28	29	33	****	38	38	-	38	-	38	39	34	41	37	38	34	34
13	36	30	22	24	15	9	4	4	6	5	4	3	9	4	8	11	10	7	6	8	4	9	14	21	11
14	23	16	13	24	44	41	27	21	27	39	37	33	35	34	28	25	26	29	31	31	32	24	17	11	28
15	9	13	11	10	20	19	19	16	10	12	17	18	18	17	15	17	13	14	13	10	10	11	15	27	15
16	25	20	22	28	27	20	14	16	14	12	15	9	10	16	15	13	4	7	13	14	8	9	11	25	15
17	32	34	33	22	13	****	****	****	21	24	26	29	36	39	38	****	****	28	32	28	27	29	37	38	30
18	****	****	****	****	****	****	****	****	41	36	34	39	22	22	10	12	11	11	13	12	21	26	21	18	22
19	16	14	18	20	22	16	20	20	16	14	15	24	22	17	13	17	27	13	11	12	12	13	8	10	16
20	14	18	22	20	18	22	22	18	9	6	10	18	18	18	22	23	26	25	22	23	19	16	21	22	19
21	24	21	23	-	18	13	12	8	6	5	6	9	12	14	16	16	16	15	12	12	13	14	13	12	13
22	12	16	18	21	22	20	19	16	12	11	12	7	4	12	20	20	19	15	12	18	20	22	22	21	16
23	28	39	37	37	38	34	34	24	17	17	14	11	4	9	14	17	16	23	22	22	20	18	28	29	23
24	22	13	23	27	33	33	33	38	****	38	36	29	27	36	****	16	17	17	21	32	29	31	32	26	28
25	26	42	46	44	44	40	35	31	28	25	23	23	23	22	18	10	7	8	9	10	11	10	9	12	23
26	12	14	15	9	10	8	8	13	16	14	17	18	21	24	26	26	28	30	26	29	33	35	37	36	21
27	31	36	42	37	38	48	40	36	34	30	36	32	36	45	47	49	45	54	53	53	49	48	48	46	42
28	43	40	43	48	50	46	41	****	****	27	19	19	20	21	****	19	18	21	22	20	14	11	10	8	27
29	5	4	5	6	7	11	11	9	9	10	9	8	6	6	10	10	8	8	9	10	13	8	8	12	8
30	11	12	15	12	12	11	9	8	8	12	****	15	16	17	18	24	24	****	25	****	13	14	20	19	15
MEAN	26	27	28	28	29	28	26	23	22	23	22	22	21	22	21	22	21	23	23	23	24	23	25	26	24.0

PERCENTAGE OF DATA VALID - 93.6 PERCENTAGE OF DATA INVALID - 5.1 PERCENTAGE OF DATA UNAVAILABLE - 1.3

NOTES 1. "*****" INDICATES INVALID DATA DUE TO INSTRUMENTATION FAILURE

2. "-" INDICATES DATA IS UNAVAILABLE

3. "******" INDICATES LESS THAN 2/3 VALID DATA FOR DAILY MEAN IN ONE DAY

4. "DATA UNAVAILABLE" AND "DATA INVALID" ARE USED INTERCHANGEABLY FOR PRE-1976 DATA

ONTARIO MINISTRY OF THE ENVIRONMENT - AIR RESOURCES BRANCH AUG 01, 1984

POLLUTANT - WIND SPEED 3 OVER 250 FT UNITS - KILOMETRES/HOUR

STATION - SW NO 18013 BRUCE NUCLEAR SITE,TIVERTON MONTH - JUL 84

HOUR DAY	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	MEAN
1	16	16	16	19	13	15	13	9	****	4	5	****	14	16	18	****	****	****	****	11	****	2	2	5	11
2	9	10	6	3	6	6	5	9	8	****	****	16	17	20	16	12	****	****	****	****	****	18	24	29	13
3	33	33	32	28	24	25	22	19	****	****	****	23	****	****	20	****	****	****	****	****	****	22	22	23	******
4	33	27	27	26	13	****	****	****	****	****	****	15	****	****	14	****	6	****	****	****	****	****	23	22	******
5	18	21	21	16	9	4	****	****	****	-	****	13	12	****	10	****	9	****	****	****	****	28	29	29	******
6	30	25	17	9	11	19	****	****	****	****	****	****	19	19	****	****	****	****	****	****	****	23	31	32	******
7	31	31	30	30	32	33	****	****	****	32	32	****	****	31	29	****	****	****	****	****	17	14	16	15	******
8	16	14	16	18	20	17	****	19	****	****	****	****	****	20	****	18	****	****	****	****	****	20	23	26	******
9	29	27	26	26	25	27	****	26	****	****	****	-	****	****	****	****	****	****	****	****	****	****	25	20	******
10	21	26	18	12	15	****	11	****	****	****	****	****	****	****	13	5	4	6	5	9	14	17	19	19	13
11	15	20	30	33	49	48	34	26	36	38	29	15	28	32	32	26	12	10	8	10	14	14	18	20	25
12	21	23	29	27	15	12	11	11	18	22	21	21	14	10	9	7	9	11	14	14	13	14	16	14	16
13	14	13	17	16	23	23	19	19	16	18	11	15	14	16	19	24	30	34	31	33	36	37	37	38	23
14	36	34	33	33	34	36	31	28	26	24	23	20	25	22	23	25	28	26	28	30	30	33	37	35	29
15	35	38	35	35	36	38	41	38	39	34	34	33	36	35	33	33	29	31	32	29	23	22	35	29	33
16	13	10	5	6	15	22	28	34	33	-	32	30	30	29	23	24	18	13	10	5	10	8	12	12	18
17	21	25	27	29	30	29	28	29	31	32	32	31	32	30	33	32	23	21	24	24	****	****	14	12	27
18	9	10	8	10	7	10	14	10	11	13	13	15	17	17	16	24	30	28	22	-	31	34	37	28	18
19	27	22	13	12	18	20	25	29	30	30	31	29	31	30	26	34	22	31	25	29	26	26	26	30	26
20	33	29	29	30	31	23	11	28	27	25	****	22	****	21	10	6	4	4	4	2	3	3	****	8	17
21	6	5	6	8	11	12	9	7	4	2	6	7	6	11	15	14	11	8	8	8	5	5	3	4	8
22	3	3	3	3	2	2	5	4	-	7	7	13	10	13	16	16	21	22	22	26	33	33	35	36	15
23	38	45	50	47	49	48	45	41	42	41	39	47	42	38	32	32	41	-	28	23	19	28	35	44	39
24	45	41	46	41	36	30	18	15	12	16	22	21	22	21	21	25	31	34	39	42	41	36	33	20	30
25	19	16	17	17	14	12	9	7	3	6	9	9	10	12	14	13	11	6	6	5	7	11	12	12	11
26	16	17	20	18	17	14	14	18	19	12	8	11	16	19	16	12	14	14	16	24	25	24	15	7	16
27	12	18	19	17	19	20	21	20	22	23	24	28	29	30	30	29	26	24	21	23	25	25	25	25	23
28	23	20	-	14	13	12	11	6	5	7	10	12	16	19	20	22	23	21	15	13	11	10	11	10	14
29	8	5	****	2	1	1	5	7	9	6	7	8	9	8	11	9	7	7	6	3	5	8	13	17	7
30	17	18	19	17	23	22	19	21	22	16	13	14	13	11	10	11	12	11	8	13	16	17	19	27	16
31	32	32	34	33	32	31	29	19	18	18	22	22	19	19	19	21	27	26	30	28	25	26	28	30	26
MEAN	22	22	22	20	21	21	19	19	21	19	20	20	20	21	20	20	19	18	18	18	20	20	23	22	20.3

PERCENTAGE OF DATA VALID - 84.0 PERCENTAGE OF DATA INVALID - 15.1 PERCENTAGE OF DATA UNAVAILABLE - 0.9

NOTES 1. "*****" INDICATES INVALID DATA DUE TO INSTRUMENTATION FAILURE

2. "-" INDICATES DATA IS UNAVAILABLE

3. "******" INDICATES LESS THAN 2/3 VALID DATA FOR DAILY MEAN IN ONE DAY

4. "DATA UNAVAILABLE" AND "DATA INVALID" ARE USED INTERCHANGEABLY FOR PRE-1976 DATA

4. C TEMPERATURE

ONTARIO MINISTRY OF THE ENVIRONMENT - AIR RESOURCES BRANCH AUG 01, 1984

POLLUTANT - AMBIENT TEMPERATURE UNITS - 0.1 CELSIUS

STATION - SW NO 14016 OPPOSITE LAMBTON GS HWY40 COURTRIGHT MONTH - JUN 84

HOUR DAY	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	MEAN
1	134	114	113	117	119	112	113	121	135	****	165	181	190	200	208	209	211	302	193	170	134	119	115	107	156
2	102	98	94	90	90	89	108	141	156	172	187	198	205	209	214	216	215	208	197	187	179	162	155	142	159
3	133	142	153	141	135	132	136	150	165	178	191	204	213	216	221	225	228	226	226	209	189	172	162	153	179
4	155	156	145	136	130	124	138	164	199	219	226	229	234	238	232	236	235	233	231	221	207	190	168	165	192
5	****	****	153	146	143	150	-	****	145	-	-	195	214	221	226	242	241	241	227	216	208	-	199	197	198
6	194	192	193	191	185	182	194	219	230	240	245	251	260	258	251	-	****	225	232	222	210	190	192	196	216
7	207	201	197	199	191	192	198	205	214	217	223	229	240	244	256	259	268	260	263	262	240	235	233	220	227
8	218	214	202	204	204	213	216	221	224	226	236	243	250	253	256	259	269	267	263	261	249	243	241	235	236
9	233	231	227	228	226	218	213	223	235	245	246	254	252	261	263	265	267	271	235	204	169	156	151	150	226
10	146	143	174	195	198	193	201	224	232	243	254	263	271	273	278	270	282	285	277	264	248	234	229	227	234
11	215	200	187	175	162	-	139	136	143	154	167	173	184	185	189	194	199	201	205	192	168	156	149	139	174
12	132	128	122	121	126	131	139	161	186	202	214	227	237	252	-	262	-	266	257	251	233	218	213	209	195
13	210	213	208	207	200	189	198	220	234	250	264	258	258	276	283	285	289	282	249	209	206	200	200	201	233
14	203	194	167	162	162	156	157	168	180	183	171	161	153	142	135	134	133	129	122	119	110	104	97	96	147
15	92	90	97	99	100	104	110	123	143	152	161	169	173	176	181	181	177	173	165	154	133	121	116	115	138
16	111	106	100	90	90	95	114	145	164	176	181	191	201	210	215	217	218	214	210	201	194	185	165	156	165
17	150	149	151	157	164	****	****	****	165	166	172	181	183	181	187	****	****	235	234	226	229	219	****	****	185
18	****	****	****	****	****	****	****	****	****	****	****	267	270	270	263	264	268	253	230	228	199	190	182	177	******
19	172	172	174	162	155	160	171	196	221	****	****	246	240	243	244	233	224	217	208	194	168	161	165	156	195
20	145	137	131	129	129	131	146	165	181	198	209	215	217	222	219	216	218	205	181	170	155	142	136	131	172
21	130	123	121	-	113	111	131	161	185	198	208	215	223	227	223	226	224	222	214	191	168	155	151	143	177
22	137	129	132	129	126	123	127	179	200	216	228	236	242	248	254	255	250	241	234	222	208	197	192	188	196
23	186	183	178	168	159	154	170	185	207	228	239	243	236	231	236	246	238	236	238	215	183	186	188	187	205
24	184	182	181	179	174	171	171	173	****	183	183	189	212	212	****	215	218	220	215	172	158	156	147	149	184
25	140	128	121	120	117	118	133	149	163	175	181	184	188	190	192	194	196	197	190	169	149	140	132	123	158
26	119	121	112	106	101	97	117	154	179	195	204	211	219	224	223	225	227	227	224	220	203	191	185	176	178
27	188	201	202	202	200	200	189	187	192	202	195	213	224	223	216	212	209	204	202	191	182	179	178	166	198
28	158	155	156	150	146	141	150	171	186	203	214	222	228	234	239	243	244	243	238	215	190	175	165	149	192
29	145	142	139	134	127	122	135	154	163	162	170	170	166	162	155	153	151	153	147	142	139	132	127	133	147
30	132	137	140	141	129	132	146	158	167	170	171	174	180	187	193	192	196	196	188	179	166	159	156	157	164
MEAN	160	156	154	153	148	146	154	172	186	198	204	213	219	222	223	226	226	228	217	203	186	175	169	164	187.8

PERCENTAGE OF DATA VALID - 95.0 PERCENTAGE OF DATA INVALID - 3.8 PERCENTAGE OF DATA UNAVAILABLE - 1.3

NOTES 1. "****" INDICATES INVALID DATA DUE TO INSTRUMENTATION FAILURE

2. "-" INDICATES DATA IS UNAVAILABLE

3. "******" INDICATES LESS THAN 2/3 VALID DATA FOR DAILY MEAN IN ONE DAY

4. "DATA UNAVAILABLE" AND "DATA INVALID" ARE USED INTERCHANGEABLY FOR PRE-1976 DATA

ONTARIO MINISTRY OF THE ENVIRONMENT - AIR RESOURCES BRANCH AUG 01, 1984

POLLUTANT - AMBIENT TEMPERATURE UNITS - 0.1 CELSIUS

STATION - SW NO 14016 OPPOSITE LAMBTON GS HWY40 COURTRIGHT MONTH - JUL 84

HOUR DAY	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	MEAN
1	157	152	149	150	146	145	155	174	192	204	220	228	233	236	237	239	240	237	226	197	180	168	157	152	191
2	149	151	152	147	143	141	155	180	208	227	239	244	256	253	255	252	243	235	237	223	213	204	198	194	204
3	184	182	179	176	172	168	175	196	219	240	248	254	249	263	267	268	273	275	264	248	233	227	221	219	225
4	215	212	206	199	193	191	195	202	208	221	232	235	239	245	250	234	229	225	218	207	191	188	184	182	213
5	177	173	173	167	164	159	165	185	204	-	223	233	226	224	222	204	198	192	204	206	192	185	185	189	193
6	188	185	183	183	184	188	155	153	159	163	174	188	187	194	212	216	216	210	200	175	159	145	134	121	178
7	115	107	100	93	91	88	101	117	124	132	139	149	155	159	163	172	178	178	179	175	152	139	137	130	136
8	122	119	116	106	104	106	117	147	174	187	195	201	208	211	216	217	215	212	211	201	186	179	175	170	171
9	167	164	166	166	164	166	174	190	195	200	202	-	201	202	200	198	200	199	199	196	194	193	193	187	188
10	182	183	188	186	187	185	195	197	214	238	252	265	265	265	275	285	280	262	233	221	211	208	208	212	225
11	238	214	197	197	197	196	196	197	205	208	200	183	179	174	179	193	203	218	231	226	217	207	198	183	202
12	175	173	166	160	156	156	168	194	215	227	240	251	267	269	272	275	272	234	232	232	216	197	185	176	213
13	170	168	165	162	158	154	167	195	233	254	264	270	272	270	271	268	269	268	258	244	231	220	209	207	223
14	199	202	200	195	188	183	193	214	239	259	277	281	285	278	277	284	289	286	279	262	254	240	234	230	243
15	227	228	224	219	216	216	218	226	234	235	248	252	241	246	254	253	260	267	271	260	252	233	215	204	237
16	198	192	185	183	181	178	179	190	195	-	204	212	219	221	223	229	236	236	235	225	196	178	177	171	202
17	166	160	161	160	154	163	179	189	198	209	204	177	197	214	219	224	216	210	190	193	****	****	177	167	188
18	156	148	139	133	129	133	140	146	153	159	170	172	182	183	184	184	182	187	181	-	162	150	145	139	159
19	133	134	138	139	133	128	138	167	190	208	217	225	233	235	238	237	236	233	232	223	212	205	194	190	192
20	185	176	171	176	174	173	181	192	215	225	****	249	****	254	260	260	258	253	240	228	219	213	****	196	214
21	192	191	186	180	177	174	173	190	206	215	233	241	243	249	235	232	237	231	226	207	191	181	180	171	206
22	167	163	163	157	150	150	165	193	-	234	249	260	269	274	277	272	272	265	258	246	228	213	203	198	219
23	195	193	190	190	195	196	207	216	235	250	267	280	289	295	300	303	305	-	294	274	****	****	****	****	246
24	****	****	****	****	****	****	****	****	****	****	****	211	218	227	224	224	225	220	206	189	169	158	157	150	******
25	150	143	143	143	142	141	142	153	174	193	207	218	226	231	234	234	234	228	217	197	177	175	174	171	185
26	170	170	170	163	160	160	165	175	189	202	209	215	215	211	201	180	176	173	172	163	157	154	152	153	177
27	148	147	144	139	139	136	137	150	173	190	195	198	200	208	210	208	205	198	191	180	171	160	153	146	172
28	139	133	-	-	134	128	129	138	159	184	198	208	213	220	221	223	221	218	210	200	185	163	160	151	145	177
29	139	137	****	134	128	128	139	163	189	203	212	217	220	224	229	232	232	228	223	198	176	165	161	149	184
30	139	138	139	133	124	127	138	166	195	216	231	240	242	244	238	242	245	242	237	223	213	195	185	179	195
31	173	168	165	157	151	146	152	169	200	223	240	248	251	254	257	253	251	251	252	243	235	223	214	210	212
MEAN	171	167	166	161	158	157	163	180	197	211	221	227	230	233	236	235	235	229	226	215	198	188	181	176	198.7

PERCENTAGE OF DATA VALID - 96.2 PERCENTAGE OF DATA INVALID - 2.8 PERCENTAGE OF DATA UNAVAILABLE - 0.9

NOTES 1. "*****" INDICATES INVALID DATA DUE TO INSTRUMENTATION FAILURE

2. "-" INDICATES DATA IS UNAVAILABLE

3. "******" INDICATES LESS THAN 2/3 VALID DATA FOR DAILY MEAN IN ONE DAY

4. "DATA UNAVAILABLE" AND "DATA INVALID" ARE USED INTERCHANGEABLY FOR PRE-1976 DATA

ONTARIO MINISTRY OF THE ENVIRONMENT - AIR RESOURCES BRANCH AUG 01, 1984

POLLUTANT - AMBIENT TEMPERATURE UNITS - 0.1 CELSIUS

STATION - SW NO 18013 BRUCE NUCLEAR SITE,TIVERTON MONTH - JUN 84

HOUR DAY	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	MEAN
1	94	86	69	72	83	88	106	92	86	****	106	****	95	115	115	120	139	221	132	125	121	123	121	122	111
2	114	110	114	115	120	125	139	163	194	204	212	206	196	187	173	134	150	165	172	186	194	194	155	125	160
3	124	123	108	86	75	63	****	53	51	56	68	78	91	111	130	149	178	173	167	161	161	167	171	164	118
4	130	115	111	111	107	103	102	102	116	116	140	176	192	205	212	204	213	218	221	214	201	209	213	203	164
5	****	****	****	****	****	****	-	****	205	-	-	180	211	241	254	257	259	258	246	239	234	-	228	221	******
6	220	217	211	196	189	194	198	209	214	214	222	232	240	250	260	-	****	204	223	227	228	227	233	236	220
7	235	234	231	229	249	225	225	231	236	230	236	236	****	****	248	252	253	258	263	264	256	252	250	245	243
8	243	240	240	233	237	236	238	241	245	251	255	253	246	243	245	249	254	261	258	247	239	211	200	199	240
9	201	212	220	218	207	190	171	168	167	176	160	161	162	149	150	174	179	167	175	173	179	179	177	178	179
10	193	198	200	204	218	195	141	174	208	220	230	239	245	252	249	189	210	214	204	197	199	221	229	187	209
11	146	134	115	84	83	-	85	79	76	74	76	79	83	90	103	112	113	119	134	132	142	142	141	138	108
12	135	138	138	141	145	150	163	184	194	202	212	****	235	248	-	268	-	269	257	261	238	221	224	208	201
13	185	196	132	127	124	113	126	133	122	120	129	136	146	145	143	173	171	181	195	203	198	175	147	142	153
14	123	115	112	112	100	102	96	87	81	79	76	84	90	103	100	105	97	96	98	98	95	99	103	103	98
15	106	102	97	87	88	96	107	128	139	136	125	126	127	125	126	126	122	114	116	121	122	120	115	110	116
16	110	113	109	103	106	111	121	143	165	179	182	150	160	151	153	159	156	161	171	182	176	183	172	177	150
17	180	169	158	161	163	****	****	****	168	178	186	189	194	201	196	****	****	213	216	218	221	****	222	220	192
18	****	****	****	****	****	****	****	****	207	200	184	155	137	145	156	180	163	165	147	148	150	150	140	140	160
19	141	142	149	154	147	144	142	132	123	122	122	122	132	125	128	131	142	142	139	138	131	124	123	122	134
20	122	125	124	127	124	126	139	150	166	155	162	167	170	169	167	161	162	159	153	146	145	150	146	141	148
21	139	130	128	-	123	129	132	159	157	154	163	164	164	165	163	163	158	154	153	151	153	150	153	149	150
22	153	155	155	156	154	145	156	178	205	220	231	217	182	182	178	182	189	191	199	215	211	193	185	181	184
23	176	170	162	160	165	159	166	190	205	221	234	252	191	185	240	274	271	265	256	245	235	213	193	195	209
24	196	183	188	190	165	154	148	140	****	133	135	133	144	141	****	147	169	184	164	138	140	141	132	127	154
25	130	131	130	126	122	118	119	121	120	120	120	121	119	119	123	130	135	137	136	136	133	131	128	133	127
26	125	125	122	115	108	110	124	150	161	173	177	184	197	205	214	223	229	232	232	224	213	207	199	198	177
27	195	198	201	202	215	207	193	190	183	180	178	192	191	168	160	156	150	150	144	142	141	142	140	141	173
28	141	144	140	135	135	135	131	****	****	137	149	162	174	187	****	186	145	140	137	130	127	130	131	128	144
29	126	118	115	128	128	127	124	120	108	119	115	114	118	120	116	116	135	131	121	115	121	123	129	125	121
30	126	126	126	125	116	117	129	132	146	137	****	157	162	161	148	170	141	****	153	****	150	147	146	151	141
MEAN	154	152	147	144	143	141	143	148	159	161	164	167	165	169	172	175	173	184	179	178	175	169	168	164	162.6

PERCENTAGE OF DATA VALID - 93.8 PERCENTAGE OF DATA INVALID - 5.0 PERCENTAGE OF DATA UNAVAILABLE - 1.3

NOTES 1. "****" INDICATES INVALID DATA DUE TO INSTRUMENTATION FAILURE

2. "-" INDICATES DATA IS UNAVAILABLE

3. "******" INDICATES LESS THAN 2/3 VALID DATA FOR DAILY MEAN IN ONE DAY

4. "DATA UNAVAILABLE" AND "DATA INVALID" ARE USED INTERCHANGEABLY FOR PRE-1976 DATA

ONTARIO MINISTRY OF THE ENVIRONMENT - AIR RESOURCES BRANCH AUG 01, 1984

POLLUTANT - AMBIENT TEMPERATURE UNITS - 0.1 CELSIUS

STATION - SW NO 18013 BRUCE NUCLEAR SITE,TIVERTON MONTH - JUL 84

HOUR DAY	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	MEAN
1	157	154	152	152	150	153	163	160	****	157	156	****	160	169	162	****	160	****	****	178	****	175	175	162	161
2	148	145	151	149	148	154	165	180	203	****	****	190	173	172	183	211	188	****	****	****	****	206	210	213	177
3	207	202	200	197	192	184	195	199	****	****	****	224	****	****	257	****	263	****	****	****	****	****	231	226	******
4	204	204	209	200	166	****	****	****	****	****	****	184	****	****	210	****	207	****	****	****	****	222	210	205	******
5	200	201	192	191	180	168	****	****	****	-	****	194	197	****	****	****	202	****	****	****	****	****	190	191	******
6	189	187	178	175	176	174	****	145	****	****	****	****	178	188	****	****	****	****	****	116	****	135	135	129	******
7	125	120	118	120	117	109	101	113	****	110	103	****	****	124	133	140	****	****	****	****	152	155	153	141	126
8	139	146	135	134	143	141	****	152	****	****	****	****	****	190	****	198	****	****	****	****	****	159	179	183	******
9	183	179	180	181	181	180	****	193	****	****	****	-	****	****	****	****	****	****	****	****	****	169	198	202	******
10	195	194	19.	194	188	****	192	****	****	****	****	****	****	****	165	180	199	182	179	193	201	204	207	215	193
11	214	216	207	204	200	172	150	143	144	145	148	142	138	146	149	157	164	165	172	180	177	174	177	183	169
12	185	175	168	169	169	175	181	188	195	203	197	194	180	181	189	200	200	197	194	204	202	198	200	194	189
13	187	187	190	193	191	193	195	206	191	182	196	200	215	228	248	254	262	264	262	257	251	246	246	239	220
14	236	228	224	217	213	206	213	215	220	222	229	239	250	256	269	274	274	275	275	271	265	262	254	248	243
15	247	243	240	235	240	238	231	232	231	231	232	228	227	226	220	210	223	230	234	214	202	205	203	191	226
16	170	170	174	162	172	181	187	184	182	-	178	179	182	183	185	182	184	186	181	178	182	182	177	168	179
17	158	162	164	166	171	173	179	186	190	193	192	194	198	207	216	215	195	209	211	209	****	****	179	172	188
18	169	181	179	172	165	160	155	155	148	146	153	150	151	150	155	161	169	172	177	-	177	177	177	176	164
19	180	183	180	166	180	182	185	187	188	188	190	196	204	213	212	221	227	226	227	222	220	217	208	197	200
20	194	183	178	183	182	185	185	192	203	210	****	211	****	207	199	199	195	193	203	209	205	205	****	189	196
21	190	188	193	189	188	188	190	193	197	198	204	203	206	208	213	217	209	203	199	198	196	191	185	176	197
22	172	175	165	172	173	172	183	204	-	220	221	222	227	236	252	258	267	270	271	262	254	253	250	244	223
23	241	238	232	225	226	228	229	234	242	244	249	254	255	253	251	248	246	-	213	209	207	201	190	188	231
24	185	180	179	175	171	167	164	165	172	177	180	179	184	182	177	182	186	190	188	182	179	173	170	167	177
25	175	185	174	168	163	157	161	179	194	200	204	203	204	203	200	202	203	207	203	199	200	188	177	175	189
26	168	167	167	168	171	171	173	185	197	207	215	225	215	212	209	206	202	202	188	187	182	173	169	169	189
27	173	177	177	172	172	171	178	185	184	189	192	193	195	199	200	200	201	200	198	190	184	184	182	181	187
28	180	182	-	168	160	161	161	168	174	177	184	194	196	199	200	200	201	197	193	188	185	185	179	169	183
29	166	160	****	149	149	140	149	166	165	179	185	195	201	204	207	205	203	202	199	202	192	175	166	165	179
30	161	167	170	176	182	179	184	187	186	197	201	196	197	203	205	208	221	229	228	219	210	204	201	198	196
31	203	201	197	195	190	186	188	198	207	210	219	219	227	240	250	253	253	254	251	250	231	232	235	228	222
MEAN	184	183	182	178	176	174	178	182	191	190	192	200	198	199	204	207	211	212	211	205	202	195	194	190	192.4

PERCENTAGE OF DATA VALID - 84.9 PERCENTAGE OF DATA INVALID - 14.1 PERCENTAGE OF DATA UNAVAILABLE - 0.9

NOTES 1. "****" INDICATES INVALID DATA DUE TO INSTRUMENTATION FAILURE

2. "-" INDICATES DATA IS UNAVAILABLE

3. "******" INDICATES LESS THAN 2/3 VALID DATA FOR DAILY MEAN IN ONE DAY

4. "DATA UNAVAILABLE" AND "DATA INVALID" ARE USED INTERCHANGEABLY FOR PRE-1976 DATA

ONTARIO MINISTRY OF THE ENVIRONMENT - AIR RESOURCES BRANCH AUG 01, 1984

POLLUTANT - VERTICAL TEMP. DIFF. LEVEL 2 - LEVEL 1 UNITS - 0.1 CELSIUS

STATION - SW NO 14016 OPPOSITE LAMBTON GS HWY40 COURTRIGHT MONTH - JUN 84

HOUR DAY	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	MEAN
1	9	20	15	5	5	14	6	0	-2	****	-2	****	-2	-2	-1	0	-3	2	-1	0	0	3	3	2	3
2	4	4	13	18	8	17	4	1	2	0	-2	-3	-3	-4	-4	-3	-4	-2	-1	0	1	4	2	0	2
3	3	3	0	0	0	0	-1	-1	-2	-1	-1	-2	-3	-3	-3	-1	-3	0	0	10	19	18	5	6	2
4	13	14	11	8	7	7	2	1	-1	-1	0	-1	-1	0	3	1	1	4	4	8	12	12	17	9	5
5	****	****	7	11	15	7	-	****	5	-	-	10	6	5	8	4	12	13	15	12	8	-	8	9	9
6	6	8	6	6	6	7	5	0	0	0	1	0	0	3	9	-	****	9	9	8	12	13	10	11	6
7	7	8	8	17	6	7	4	7	7	8	5	6	3	5	2	3	2	8	7	5	11	10	8	8	7
8	8	5	8	7	10	4	4	1	2	2	1	1	0	1	1	2	2	2	2	3	2	3	3	3	3
9	2	2	2	3	3	4	4	3	-2	-1	0	-2	4	1	0	3	4	2	-2	-2	-1	1	4	0	1
10	1	11	11	9	6	9	7	0	0	0	1	1	0	2	1	2	1	0	1	2	4	9	7	2	4
11	0	1	0	0	0	-	-2	-4	-5	-5	-6	-3	-5	-5	-6	-5	-5	-4	-3	-2	7	11	11	16	0
12	18	13	12	11	10	3	2	2	1	1	1	0	-4	-3	-	1	-	4	11	11	12	12	9	12	6
13	10	6	3	5	3	8	6	0	0	-2	-1	0	5	1	0	0	0	0	2	5	1	3	5	2	3
14	1	5	-1	-1	1	0	1	-2	-3	-6	-7	-8	-6	-6	-5	-6	-6	-5	-3	-2	0	0	2	2	-1
15	1	3	-1	0	1	0	-1	-4	-6	-5	-5	-5	-4	-5	-5	-6	-5	-4	-3	0	6	8	8	4	0
16	9	13	9	8	7	2	-2	-4	-5	-5	-2	-3	-4	-4	-2	-1	-2	2	3	5	1	0	2	1	1
17	0	-1	-1	1	0	****	****	****	-1	-1	-2	-2	2	7	7	****	****	-3	7	9	1	2	****	****	1
18	****	****	****	****	****	****	****	****	****	****	****	0	0	0	0	1	0	0	-1	0	0	2	6	7	******
19	6	12	6	13	15	11	7	-1	-5	****	****	-4	-7	-6	-6	-6	-7	-5	-3	-1	0	0	0	0	1
20	1	1	3	4	2	0	-3	-4	-5	-4	-5	-5	-6	-6	-6	-6	-7	-5	-4	-1	0	2	3	8	-1
21	4	4	3	-	4	4	-2	-4	-5	-6	-5	-5	-6	-5	-6	-7	-6	-5	-3	1	2	1	4	7	0
22	6	16	9	8	8	14	3	-4	-5	-7	-7	-7	-7	-6	-8	-7	-4	-3	-1	0	2	1	0	0	0
23	0	0	0	1	1	3	-3	-4	-6	-6	-5	-3	1	3	1	-2	1	2	0	0	5	4	3	3	0
24	0	0	0	1	2	3	3	6	****	15	16	14	1	-1	****	-1	1	1	1	0	1	1	0	0	3
25	3	5	1	0	2	1	-2	-3	-3	-4	-3	-3	-3	-3	-3	-4	-4	-3	-3	0	6	4	4	8	0
26	4	1	9	9	9	7	0	-4	-3	-3	-2	-2	-3	-2	-1	-3	-2	1	1	1	1	0	0	2	1
27	2	3	0	1	0	0	0	0	1	-1	0	-1	-1	-1	-1	1	1	1	1	1	0	0	0	0	0
28	2	2	1	0	3	4	-1	-2	-2	-2	-1	-1	1	1	1	1	1	-2	-2	2	5	8	1	1	1
29	3	5	5	3	1	-1	-3	-4	-6	-5	-5	-4	-5	-5	-5	-5	-4	-4	-3	-2	-1	-1	1	-2	-1
30	-2	-1	-1	1	0	0	-3	-4	-5	-5	-6	-7	-7	-6	-6	-5	-5	-4	-3	-2	0	0	0	0	-2
MEAN	4	6	5	5	5	5	1	0	-1	-1	-1	0	-1	0	0	-1	-1	0	1	3	4	5	4	4	1.5

PERCENTAGE OF DATA VALID - 94.9 PERCENTAGE OF DATA INVALID - 3.9 PERCENTAGE OF DATA UNAVAILABLE - 1.3

NOTES 1. "****" INDICATES INVALID DATA DUE TO INSTRUMENTATION FAILURE

2. "-" INDICATES DATA IS UNAVAILABLE

3. "******" INDICATES LESS THAN 2/3 VALID DATA FOR DAILY MEAN IN ONE DAY

4. "DATA UNAVAILABLE" AND "DATA INVALID" ARE USED INTERCHANGEABLY FOR PRE-1976 DATA

ONTARIO MINISTRY OF THE ENVIRONMENT - AIR RESOURCES BRANCH AUG 01, 1984

POLLUTANT - VERTICAL TEMP. DIFF. LEVEL 2 - LEVEL 1 UNITS - 0.1 CELSIUS

STATION - SW NO 14016 OPPOSITE LAMBTON GS HWY40 COURTRIGHT MONTH - JUL 84

HOUR DAY	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	MEAN
1	0	1	2	2	1	0	-2	-3	-5	-3	-4	-5	-6	-6	-5	-5	-4	-4	-3	0	4	6	8	5	0
2	9	7	3	9	8	11	4	2	-2	-2	0	-1	-2	-1	0	0	0	-2	1	7	7	9	5	5	3
3	8	8	6	6	6	3	0	1	1	1	-1	0	4	1	1	3	1	1	6	10	11	7	6	2	4
4	4	2	0	0	1	1	0	1	-2	-3	-4	-4	-2	-1	1	-2	-3	1	-1	1	2	2	3	3	0
5	2	0	0	1	3	5	0	1	-3	-	-1	-1	1	1	0	0	2	1	0	0	2	1	1	0	1
6	0	1	0	0	0	1	1	2	2	6	4	7	1	-2	-2	-1	-1	-1	-1	-1	-1	-1	-2	-2	0
7	-2	-2	-1	-1	1	-1	-3	-3	-4	-4	-4	-4	-4	-4	-4	-4	-2	-2	-2	0	10	10	5	5	0
8	3	3	2	2	5	2	-1	-3	-5	-5	-4	-3	-3	-3	-4	-4	-2	1	0	4	1	0	0	0	0
9	1	0	1	0	0	1	-1	-1	0	-1	0	-	-2	-2	-2	-2	-1	0	0	1	1	1	1	0	0
10	0	1	2	2	1	2	2	5	0	1	-1	-1	0	0	0	0	3	0	-2	2	0	0	3	10	1
11	3	3	-	6	7	7	5	4	5	6	2	-1	1	-1	3	7	12	5	1	1	3	3	1	2	4
12	1	0	0	2	2	1	-1	-2	-2	-1	-1	0	0	0	0	0	0	-2	0	4	9	13	24	20	3
13	20	18	14	12	14	9	5	1	1	1	-2	-1	0	3	2	3	3	4	12	13	8	6	6	6	7
14	9	6	3	4	4	9	4	1	1	0	1	1	0	4	6	4	1	2	4	10	8	9	7	6	4
15	7	5	4	4	4	4	4	2	1	1	0	0	1	0	0	0	0	0	0	1	0	1	3	4	2
16	4	3	2	0	0	1	-1	-2	-2	-	-2	-2	-1	-1	-1	-1	-2	1	1	1	18	21	16	10	3
17	11	5	3	4	6	4	0	1	1	-1	0	-1	-3	-2	-1	1	0	-2	1	1	****	****	1	1	1
18	1	3	4	2	0	1	-2	-3	-3	-4	-4	-3	-4	-4	-4	-4	-4	-5	-4	-	4	4	2	3	0
19	5	2	1	1	4	0	1	-1	-2	-2	-2	-2	-3	-3	-2	-2	-2	0	0	0	1	2	3	2	0
20	2	2	4	2	2	1	0	1	-2	-2	****	-1	****	0	0	0	0	0	0	0	0	0	****	2	1
21	2	1	2	3	2	2	1	-2	-3	-3	1	-4	-1	-3	-2	-4	-5	-4	-3	1	5	7	6	11	0
22	10	10	7	5	3	5	3	-1	-	-1	-5	-6	-7	-7	-6	1	0	3	6	6	3	1	1	2	1
23	2	3	2	3	2	1	0	0	1	1	1	0	0	0	0	2	1	-	4	1	****	****	****	****	1
24	****	****	****	****	****	****	****	****	****	****	****	-3	-1	-4	-4	-4	-4	-3	1	1	5	9	8	14	******
25	1	1	-1	0	1	1	-1	-2	-2	1	0	-2	1	0	-3	-4	-4	-3	-1	2	9	8	8	5	1
26	7	4	2	5	4	6	1	-1	-1	-1	0	1	0	0	1	1	-1	-1	1	-1	1	1	0	1	1
27	4	0	0	-1	1	1	-2	-2	-3	-4	-4	-5	-5	-5	-5	-4	-4	-3	-1	1	0	1	1	0	-1
28	0	0	-	0	0	0	1	-2	-3	-4	-4	-5	-5	-5	-4	-5	-4	-3	-2	1	11	6	1	1	0
29	0	1	****	1	4	2	0	0	-1	-3	-4	-3	-2	-3	-4	-4	-3	-2	1	6	9	10	6	8	1
30	7	4	9	13	9	6	5	0	1	-2	1	0	0	0	2	0	1	0	1	3	1	3	1	1	3
31	3	2	1	4	4	6	4	0	0	0	0	0	0	1	1	1	1	3	1	3	2	2	2	1	2
MEAN	4	3	3	3	3	3	1	0	0	0	0	-1	0	-1	0	0	0	0	1	3	5	5	4	4	1.3

PERCENTAGE OF DATA VALID - 96.2 PERCENTAGE OF DATA INVALID - 2.8 PERCENTAGE OF DATA UNAVAILABLE - 0.9

NOTES 1. "****" INDICATES INVALID DATA DUE TO INSTRUMENTATION FAILURE

2. "-" INDICATES DATA IS UNAVAILABLE

3. "******" INDICATES LESS THAN 2/3 VALID DATA FOR DAILY MEAN IN ONE DAY

4. "DATA UNAVAILABLE" AND "DATA INVALID" ARE USED INTERCHANGEABLY FOR PRE-1976 DATA

ONTARIO MINISTRY OF THE ENVIRONMENT - AIR RESOURCES BRANCH AUG 01, 1984

POLLUTANT - VERTICAL TEMP. DIFF. LEVEL 2 - LEVEL 1 UNITS = 0.1 CELSIUS

STATION - SW NO 18013 BRUCE NUCLEAR SITE, TIVERTON MONTH - JUN 84

HOUR DAY	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	MEAN
1	0	3	13	25	10	20	4	24	34	****	22	****	8	16	10	10	0	7	30	14	3	0	11	22	13
2	27	26	22	20	13	17	10	0	-5	-6	-6	-4	4	16	28	30	34	21	14	10	3	4	7	-2	12
3	-1	-2	4	5	-2	-3	****	-3	-2	-2	-2	-3	-2	-1	0	0	-1	2	9	6	10	6	2	10	1
4	29	29	37	30	15	22	16	15	12	13	5	-2	0	-1	-1	0	2	5	6	12	19	17	10	10	13
5	****	****	****	****	****	****	-	****	-2	-	-	-2	-8	-8	-4	-4	-5	-3	-1	0	0	-	0	0	******
6	0	1	-2	5	10	7	3	0	0	1	-1	-2	-2	-1	-2	-	****	5	2	0	0	0	1	1	1
7	1	1	1	1	1	1	0	1	-2	-2	-2	-2	****	****	-1	-1	1	0	0	1	1	2	1	****	0
8	1	1	0	1	0	0	1	-1	-2	-2	-2	-2	-2	-2	-1	-1	1	0	0	3	6	11	18	6	1
9	9	7	3	4	6	24	37	35	31	28	42	44	36	17	-3	-4	-2	3	-3	-2	1	2	4	2	13
10	1	1	1	3	2	2	5	0	-3	-3	-2	-2	-1	1	-2	9	7	2	3	22	26	15	11	23	5
11	18	15	11	-4	-4	-	-5	-6	-6	-6	-6	-7	-10	-9	-9	-8	-6	3	6	1	5	7	7	8	0
12	13	9	15	7	3	1	-2	-3	-3	-3	-2	****	-2	-3	-	-1	-	0	1	0	0	3	1	-2	2
13	-3	2	9	5	5	1	0	1	8	4	2	5	21	27	19	24	18	23	23	24	26	24	4	2	11
14	2	0	-1	-2	-2	-1	-2	-3	-4	-4	-5	-7	-4	-3	-3	1	-3	-3	-1	0	-2	-1	-3	-3	-1
15	-3	-3	-3	-3	-2	1	-3	-4	-4	-3	-3	-3	-3	-4	-4	-3	-3	-2	-3	-2	-4	2	6	4	-1
16	2	1	0	4	5	1	1	-5	-6	-8	0	6	-4	3	-8	-9	-2	15	11	0	11	9	4	3	1
17	1	1	-1	-2	-4	****	****	****	-5	-4	-1	0	1	1	1	****	****	-1	0	1	1	****	1	0	0
18	****	****	****	****	****	****	****	****	0	0	-1	5	5	4	1	-1	9	7	10	1	4	7	1	1	3
19	1	2	5	1	2	4	-1	-3	-7	-8	-10	-6	-9	-8	-7	-9	-3	-5	-5	-1	2	5	-2	1	-2
20	13	11	8	5	5	5	1	-3	-3	2	3	1	3	4	5	11	12	17	6	0	-2	1	0	2	4
21	3	5	8	-	27	6	0	-3	12	16	13	19	21	20	16	3	1	0	2	0	-2	1	1	3	7
22	6	2	7	7	12	13	4	0	-5	-7	-6	8	27	25	9	6	5	28	31	8	-1	9	9	2	8
23	0	-1	-2	0	0	4	0	-4	-5	-6	-4	-4	36	9	11	-6	-5	-5	-4	-4	-4	-4	-1	-2	0
24	-2	-2	-2	0	1	0	3	7	****	6	5	8	6	3	****	1	1	-2	6	7	3	2	2	5	3
25	9	7	7	5	5	5	6	5	3	0	-2	-4	-7	-7	-3	5	2	2	-1	-2	-2	-1	1	0	1
26	3	2	1	9	19	18	8	-4	-3	-3	-2	-2	-3	-3	-3	-3	-2	-2	-2	-1	0	0	0	0	1
27	1	-1	-2	-1	1	1	-3	-2	1	1	2	-3	-3	1	4	2	13	2	2	4	5	5	2	0	1
28	1	-2	-2	1	0	1	-3	****	****	-3	-3	-3	-3	-3	****	-1	-2	****	-3	-4	-4	-4	-3	-3	-1
29	-2	4	6	-3	-3	-3	-4	-4	-5	-6	-6	-7	-8	-7	-8	-6	-6	-5	-4	-4	-3	-3	-1	-3	-3
30	-2	1	3	3	9	11	-1	1	-5	-5	****	-4	-8	-8	-7	-2	-4	****	1	-2	-3	-3	1	2	0
MEAN	5	4	5	5	5	6	3	2	1	0	1	1	3	3	1	2	2	4	5	3	3	4	3	3	3.1

PERCENTAGE OF DATA VALID - 93.6 PERCENTAGE OF DATA INVALID - 5.1 PERCENTAGE OF DATA UNAVAILABLE - 1.3

NOTES 1. "****" INDICATES INVALID DATA DUE TO INSTRUMENTATION FAILURE

2. "-" INDICATES DATA IS UNAVAILABLE

3. "******" INDICATES LESS THAN 2/3 VALID DATA FOR DAILY MEAN IN ONE DAY

4. "DATA UNAVAILABLE" AND "DATA INVALID" ARE USED INTERCHANGEABLY FOR PRE-1976 DATA

ONTARIO MINISTRY OF THE ENVIRONMENT - AIR RESOURCES BRANCH AUG 01, 1984

POLLUTANT - VERTICAL TEMP. DIFF. LEVEL 2 - LEVEL 1 UNITS - 0.1 CELSIUS

STATION - SW NO 18013 BRUCE NUCLEAR SITE, TIVERTON MONTH - JUL 84

HOUR / DAY	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	MEAN
1	4	8	8	8	14	24	13	2	****	-2	-9	****	****	-5	-12	****	****	****	****	****	****	17	27	19	******
2	4	12	2	10	15	15	10	8	-2	****	****	12	22	9	24	10	****	****	****	****	****	24	22	8	12
3	3	7	2	2	6	1	1	-2	****	****	****	-3	****	****	-2	****	-1	****	****	****	****	3	8	3	******
4	0	3	1	1	-2	****	****	****	****	****	****	2	****	****	7	****	20	****	****	****	****	12	12	14	******
5	17	2	8	2	1	7	****	****	****	-	****	19	18	****	17	****	2	****	****	****	****	****	0	-1	******
6	-1	0	1	-3	1	-3	****	****	****	****	****	****	-1	-2	****	****	****	****	****	-3	****	-5	-5	-6	******
7	-6	-6	-6	-6	-7	-6	****	-7	****	-7	-7	****	****	-8	-7	-7	****	****	****	****	-4	-4	-3	6	-4
8	6	0	8	6	-2	0	****	-3	****	****	****	****	****	-2	****	-2	****	****	****	****	****	7	8	5	******
9	-1	-2	-2	-2	-2	-1	****	-3	****	****	****	-	****	****	****	****	****	****	****	****	****	4	-2	-2	******
10	-1	-1	-3	-3	-2	****	0	****	****	****	****	****	****	****	1	1	-1	4	1	3	-1	0	1	-2	0
11	-2	-5	-3	0	-1	-3	-3	1	2	2	4	4	-2	-4	-5	-3	-7	-5	-3	-3	-3	-3	-2	-3	-1
12	-2	-2	2	4	-2	-1	-1	-3	-3	-3	-3	-3	-4	-3	2	5	11	6	11	5	4	8	0	0	1
13	14	24	13	16	16	2	3	-2	-3	1	1	-2	1	0	-2	-1	-2	-1	1	1	3	4	2	2	4
14	2	1	0	1	1	0	1	1	-2	-3	-3	-2	-2	-1	-2	-2	-2	-1	1	0	2	3	2	0	0
15	2	1	2	1	1	1	0	0	1	-1	-2	-3	-3	-3	-1	-2	-2	1	3	4	10	20	5	0	1
16	-2	1	5	14	1	-3	-4	-5	-6	-	-6	-6	-5	-4	-5	-4	-3	-4	-5	-3	-4	-1	2	11	-1
17	10	5	3	1	0	0	-2	-3	-3	-3	-3	-4	-4	-4	-4	-4	1	-1	-2	-2	****	****	-2	0	0
18	5	-2	-3	-3	-3	-3	-4	-6	-5	-5	-8	-8	-8	-8	-10	-9	-7	-5	-3	-	-2	-1	-2	-3	-3
19	-3	-3	0	9	-4	-3	-4	-4	-5	-6	-6	-5	-4	-4	-3	-4	-2	-2	-1	1	0	0	4	5	-1
20	1	5	5	3	1	1	-3	-3	-3	-3	****	-2	****	-3	-4	-4	-8	-2	-2	-2	2	6	****	10	0
21	7	4	-1	-1	5	1	-3	-5	-7	-8	-3	-7	-12	-9	-11	-13	-10	-7	-2	-2	-3	0	7	18	-2
22	30	28	32	23	16	28	21	4	-	5	12	15	22	12	4	0	-2	-1	-2	1	0	-1	-2	-2	11
23	-2	-2	-2	-3	-2	-2	-2	-2	-2	-3	-3	-2	-1	-2	-1	-2	-1	-	9	2	2	-2	-3	-3	0
24	-3	-4	-4	-4	-5	-5	-5	-5	-8	-8	-10	-8	-9	-9	-7	-8	-7	-7	-5	-5	-5	-4	-5	-4	-5
25	-3	-3	2	3	3	8	10	-1	-6	-10	-12	-9	-9	-9	-7	-8	-7	-7	-3	-2	-2	7	17	21	0
26	22	25	23	21	18	17	8	0	-3	-3	-4	-3	-1	-2	-4	-5	-5	-5	-4	-4	-3	-2	-2	-2	3
27	-3	-4	-4	-4	-4	-3	-3	-4	-4	-5	-6	-6	-5	-5	-4	-2	-1	0	0	0	1	0	0	1	-2
28	3	2	-	3	5	3	3	-2	-4	-5	-5	-6	-4	-5	-4	-2	-3	0	1	1	1	1	2	11	0
29	13	16	****	23	25	31	19	2	9	1	-1	-7	-12	-12	-13	-12	-7	-6	-3	0	10	27	35	33	7
30	29	22	14	7	4	6	6	-1	-2	-2	-1	1	-1	-2	4	15	7	1	1	4	7	16	24	16	7
31	5	1	0	1	0	0	0	-2	-3	-2	-2	-3	-2	-2	-2	-2	-2	-1	1	1	0	0	1	0	0
MEAN	5	4	4	4	3	4	2	-1	-2	-2	-3	0	0	-2	-1	-2	-1	-1	0	0	1	5	5	5	1.0

PERCENTAGE OF DATA VALID - 84.4 PERCENTAGE OF DATA INVALID - 14.7 PERCENTAGE OF DATA UNAVAILABLE - 0.9

NOTES 1. "****" INDICATES INVALID DATA DUE TO INSTRUMENTATION FAILURE

2. "-" INDICATES DATA IS UNAVAILABLE

3. "******" INDICATES LESS THAN 2/3 VALID DATA FOR DAILY MEAN IN ONE DAY

4. "DATA UNAVAILABLE" AND "DATA INVALID" ARE USED INTERCHANGEABLY FOR PRE-1976 DATA

ONTARIO MINISTRY OF THE ENVIRONMENT - AIR RESOURCES BRANCH AUG 01, 1984

POLLUTANT - VERTICAL TEMP. DIFF. LEVEL 3 - LEVEL 1 UNITS - 0.1 CELSIUS

STATION - SW NO 14016 OPPOSITE LAMBTON GS HWY40 COURTRIGHT MONTH - JUN 84

HOUR DAY	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	MEAN
1	13	27	24	15	11	24	20	9	-7	****	-8	-12	-8	-6	-8	-7	-11	-5	-10	-6	1	15	27	37	6
2	43	44	47	54	43	41	17	-5	-3	-6	-10	-12	-11	-13	-13	-12	-13	-11	-10	-8	-8	1	0	-3	6
3	8	7	-7	-7	-6	-5	-8	-8	-10	-9	-9	-10	-10	-10	-11	-9	-10	-8	-8	7	25	36	41	43	1
4	47	26	22	38	45	47	46	11	-8	-9	-8	-9	-10	-8	-2	-7	-5	-3	-1	5	11	17	26	25	12
5	****	****	25	27	28	20	-	****	1	-	-	3	1	1	2	-2	7	8	14	11	10	-	14	11	11
6	8	7	5	8	10	11	4	-7	-8	-7	-7	-7	-7	-2	5	-	****	6	5	5	12	13	13	18	4
7	11	14	12	7	8	6	1	2	2	4	1	1	-3	1	-5	-3	-4	3	3	1	10	9	6	12	4
8	8	8	10	6	8	0	-1	-5	-4	-4	-5	-5	-6	-6	-4	-4	-4	-3	-2	-2	1	0	1	0	0
9	0	1	2	3	2	7	6	-3	-9	-9	-7	-10	-2	-8	-6	-3	0	1	-4	-9	-8	1	20	24	0
10	44	57	44	17	12	15	8	-6	-6	-7	-6	-6	-6	-4	-5	-3	-6	-7	-3	3	12	18	14	0	7
11	-5	-4	-5	-6	-7	-	-11	-13	-16	-17	-17	-14	-15	-13	-16	-13	-15	-14	-12	-3	13	15	14	23	-6
12	27	26	31	32	25	13	4	-3	-5	-6	-6	-7	-10	-9	-	-3	-	1	11	9	11	11	18	24	9
13	29	16	20	24	24	25	13	-2	-8	-10	-9	-4	0	-8	-7	-7	-8	-5	-4	2	-4	1	6	7	4
14	4	5	-9	-7	-6	-6	-8	-9	-11	-16	-18	-20	-19	-18	-17	-18	-18	-17	-12	-11	-7	-5	2	3	-9
15	5	3	-3	-2	1	-3	-9	-13	-16	-15	-15	-15	-14	-14	-15	-17	-15	-13	-13	-7	9	14	15	14	-5
16	16	19	28	37	35	32	0	-14	-16	-14	-10	-11	-12	-12	-10	-9	-9	-4	-3	-1	-6	-7	-2	-3	1
17	-5	-5	-2	-4	-4	****	****	****	-4	-9	-11	-9	-4	3	2	****	****	-13	3	6	-4	-1	****	****	-3
18	****	****	****	****	****	****	****	****	****	****	****	-7	-7	-7	-8	-8	-6	-5	-4	-5	-2	0	6	18	******
19	28	23	16	19	23	24	10	-4	-12	****	****	-15	-17	-17	-17	-18	-18	-15	-12	-7	1	2	-3	1	0
20	1	2	6	8	4	1	-10	-14	-14	-14	-15	-15	-16	-17	-17	-16	-18	-16	-8	-8	-4	2	12	22	-5
21	19	23	24	-	32	37	19	-11	-15	-16	-15	-14	-16	-16	-18	-17	-16	-15	-13	-7	5	8	9	15	0
22	29	43	37	33	43	60	26	-12	-16	-19	-18	-18	-18	-17	-19	-17	-13	-11	-9	-4	4	1	-4	-6	3
23	-5	-6	-5	-2	1	1	-10	-13	-15	-16	-14	-11	-6	-3	-8	-8	-5	-3	-7	-10	2	2	-3	-2	-5
24	-3	-3	-2	-2	-2	-3	-4	-1	****	6	7	4	-10	-11	****	-10	-9	-10	-8	-4	7	-5	-1	-1	-2
25	6	12	15	16	18	14	-6	-13	-12	-13	-12	-12	-12	-12	-13	-13	-13	-14	-12	-8	6	13	12	19	0
26	16	13	17	22	25	27	18	-8	-12	-12	-12	-11	-11	-11	-9	-12	-11	-8	-5	-4	-3	-6	-4	3	0
27	5	2	-3	-3	-4	-7	-4	-7	-9	-10	-9	-11	-11	-11	-11	-10	-9	-8	-9	-8	-3	0	-2	0	-5
28	9	12	7	5	11	14	3	-12	-11	-11	-11	-10	-11	-10	-11	-9	-9	-10	-10	-2	11	20	-2	4	0
29	8	14	11	11	9	-1	-10	-15	-19	-19	-16	-16	-18	-17	-17	-17	-16	-16	-14	-11	-10	-9	-8	-10	-8
30	-10	-9	-9	-9	-3	-3	-12	-16	-18	-19	-20	-21	-21	-20	-21	-19	-17	-16	-13	-11	-6	-7	-6	-4	-12
MEAN	13	13	12	12	13	14	4	-6	-9	-10	-9	-9	-9	-9	-9	-9	-9	-7	-5	-2	3	5	8	10	-0.3

PERCENTAGE OF DATA VALID - 95.0 PERCENTAGE OF DATA INVALID - 3.8 PERCENTAGE OF DATA UNAVAILABLE - 1.3

NOTES 1. "****" INDICATES INVALID DATA DUE TO INSTRUMENTATION FAILURE

2. "-" INDICATES DATA IS UNAVAILABLE

3. "*****" INDICATES LESS THAN 2/3 VALID DATA FOR DAILY MEAN IN ONE DAY

4. "DATA UNAVAILABLE" AND "DATA INVALID" ARE USED INTERCHANGEABLY FOR PRE-1976 DATA

ONTARIO MINISTRY OF THE ENVIRONMENT - AIR RESOURCES BRANCH AUG 01, 1984

POLLUTANT - VERTICAL TEMP. DIFF. LEVEL 3 - LEVEL 1 UNITS - 0.1 CELSIUS

STATION - SW NO 14016 OPPOSITE LAMBTON GS HWY40 COURTRIGHT MONTH - JUL 84

HOUR DAY	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	MEAN
1	-4	1	1	6	6	2	-6	-14	-16	-13	-16	-19	-20	-21	-19	-18	-16	-15	-12	0	3	8	22	27	-5
2	34	37	39	42	49	57	41	9	-8	-11	-10	-10	-14	-11	-9	-9	-8	-10	-8	4	10	10	12	14	10
3	23	22	21	19	23	19	10	-6	-9	-10	-11	-10	-2	-7	-8	-4	-7	-5	0	11	20	19	11	6	5
4	4	-1	-4	-2	0	1	-7	-10	-12	-14	-15	-14	-11	-10	-10	-9	-12	-8	-10	-4	-1	1	1	5	-5
5	6	8	11	13	19	24	19	-4	-11	-	-5	-10	-9	-9	-10	-7	-5	-8	-6	-6	0	2	1	-3	0
6	-2	0	1	-4	-3	-5	-6	-3	-2	0	-4	-2	-7	-10	-12	-11	-11	-11	-10	-10	-9	-10	-9	-5	-5
7	-6	-5	-4	1	0	1	-10	-14	-14	-15	-13	-14	-14	-14	-14	-14	-12	-10	-11	-8	12	24	26	31	-3
8	37	29	24	35	37	31	28	-4	-15	-18	-16	-15	-16	-14	-15	-13	-12	-9	-8	-1	-1	-5	-5	-5	2
9	-4	0	2	1	-2	-2	-8	-9	-8	-10	-7	-	-11	-12	-11	-11	-10	-9	-7	-5	-5	-5	-2	1	-5
10	2	8	3	3	1	7	5	6	-7	-10	-11	-10	-8	-10	-10	-9	-3	1	-9	2	-4	3	13	25	0
11	1	-2	0	2	4	3	0	-1	-2	-2	-6	-10	-10	-12	-8	-2	3	-4	-10	-2	6	11	8	7	0
12	5	1	8	8	12	9	0	-10	-11	-11	-11	-9	-10	-10	-10	-10	-8	-8	1	0	11	21	36	44	2
13	45	55	65	69	72	64	37	32	-6	-10	-12	-12	-10	-4	-6	-4	-5	-3	6	13	11	16	35	38	20
14	24	22	20	28	27	33	21	-3	-9	-9	-11	-10	-10	-4	0	-2	-7	-5	-3	5	5	10	10	13	6
15	11	10	13	14	13	9	5	-2	-6	-6	-8	-8	-5	-7	-10	-9	-8	-7	-8	-4	-5	2	9	17	0
16	17	18	9	4	-1	-5	-10	-12	-12	-	-12	-12	-12	-11	-11	-11	-11	-10	-10	-5	20	36	34	18	0
17	16	16	18	19	22	14	1	-5	-8	-11	-9	-8	-11	-12	-11	-10	-8	-11	-8	-9	****	****	6	6	0
18	13	13	13	16	16	5	-8	-12	-13	-14	-15	-14	-15	-15	-15	-16	-15	-17	-15	-	3	15	21	29	-1
19	33	32	25	24	29	44	37	-3	-12	-12	-12	-13	-15	-13	-12	-12	-11	-9	-8	-5	-2	1	6	6	4
20	9	15	16	15	13	8	1	-6	-12	-12	****	-12	****	-10	-9	-9	-8	-8	-7	-7	-8	-7	****	-1	-1
21	2	-1	5	6	7	5	9	-8	-15	-13	-13	-15	-12	-14	-8	-12	-15	-13	-13	-4	11	26	20	34	0
22	37	38	38	32	25	35	39	10	-	-10	-15	-18	-20	-19	-17	-9	-8	-4	0	2	5	5	3	8	7
23	6	12	13	11	5	7	-2	-5	-10	-10	-11	-10	-10	-10	-9	-7	-7	-	1	-6	****	****	****	****	-1
24	****	****	****	****	****	****	****	****	****	****	****	-14	-14	-17	-17	-17	-16	-14	-10	-4	5	14	16	22	******
25	10	12	11	5	1	1	-5	-11	-14	-15	-14	-16	-15	-13	-17	-17	-16	-14	-12	-2	16	17	21	25	-2
26	24	16	17	19	19	12	7	0	-10	-11	-10	-10	-9	-8	-8	-2	-6	-6	-5	-9	-8	-9	-7	-3	0
27	-2	-3	1	-2	1	-2	-8	-11	-15	-16	-17	-20	-21	-19	-20	-19	-18	-14	-12	-8	-6	-1	6	8	-8
28	9	19	-	13	14	11	5	-11	-16	-17	-18	-19	-19	-20	-18	-19	-17	-16	-13	-4	14	14	22	24	-2
29	30	32	****	19	28	29	19	-7	-13	-15	-17	-16	-15	-17	-16	-17	-16	-13	-11	4	23	36	38	53	6
30	44	31	44	53	63	53	41	11	-11	-12	-13	-15	-14	-12	-7	-10	-10	-8	-7	1	0	7	12	18	11
31	20	23	25	31	36	39	30	11	-7	-9	-10	-10	-10	-9	-8	-8	-6	-4	-7	-3	-1	1	2	3	5
MEAN	15	15	16	17	18	17	10	-2	-9	-10	-11	-12	-11	-11	-10	-10	-9	-8	-6	-1	4	9	13	16	0.9

PERCENTAGE OF DATA VALID - 96.2 PERCENTAGE OF DATA INVALID - 2.8 PERCENTAGE OF DATA UNAVAILABLE - 0.9

NOTES 1. "****" INDICATES INVALID DATA DUE TO INSTRUMENTATION FAILURE

2. "-" INDICATES DATA IS UNAVAILABLE

3. "******" INDICATES LESS THAN 2/3 VALID DATA FOR DAILY MEAN IN ONE DAY

4. "DATA UNAVAILABLE" AND "DATA INVALID" ARE USED INTERCHANGEABLY FOR PRE-1976 DATA

4.D SURFACE METEOROLOGICAL DATA: AIRPORT DATA

FOR HOURLY WEATHER DATA;

ALL TIMES ARE EXPRESSED IN GREENWICH MEAN TIME (G.M.T.)

FOR THE MONTHLY METEOROLOGICAL SUMMARY:

ALL TIMES ARE EXPRESSED IN LOCAL STANDARD TIME (L.S.T.)

HOURLY WEATHER DATA FOR SARNIA AIRPORT
JUNE 25 - JULY 18, 1984

:HDAS:BLIST/P,84062SSA,000Z/N=576,YZR,DEFP

--- Date: 84/06/25 00:00 ---

ID	HR	CNT	TY	TIME	SKYAMT	HT1	HT2	HT3	HT4	VIS	PRECIP	PRES	TEM	DEW	WIND	GU	ALT	CLOUD	TC	TMX	TMN	PC	PCA	PRW	PAW	W2	AM	HT	CL	M	H	PR6	PT	DC	P24	SOG	GS	S24	SUN
YZR	00																																						
YZR	01																																						
YZR	02																																						
YZR	03																																						
YZR	04																																						
YZR	05																																						
YZR	06																																						
YZR	07																																						
YZR	08																																						
YZR	09																																						
YZR	10	1	SA	1000	S	025				15	..	10120	14	10	2704		2989	SC3	2																				
YZR	11	1	SA	1100	S	030				15	..	10125	14	11	2805		2990	SC5	2																				
YZR	12	1	SA	1200	S	030				15	..	10127	15	11	2705		2991	SC3	2																				
YZR	13	1	SA	1300	S	080				15	..	10127	17	12	3104		2991	AC2	2																				
YZR	14	1	SA	1400	S S	025	090			15	..	10127	18	11	2807		2991	CU1AC2	2																				
YZR	15	1	SA	1500	S S	040	090			15	..	10127	19	10	3208		2991	CU2AC2	2																				
YZR	16																																						
YZR	17	1	SA	1700	B B	E040	300			15	..	10129	20	10	3012		2991	CU6CI1	6																				
YZR	18	1	SA	1800	B B	E040	300			15	..	10129	20	9	3314		2991	CU6CI2	6																				
YZR	19	1	SA	1900	S B B	040	E060	300		15	..	10130	18	11	0311		2992	CU5SC1CI1	6																				
YZR	20	1	SA	2000	S B	040	E060			15	..	10131	18	11	0311		2992	CU3SC5	6																				
YZR	21																																						
YZR	22																																						
YZR	23																																						

--- Date: 84/06/26 00:00 ---

ID	HR	CNT	TY	TIME	SKYAMT	HT1	HT2	HT3	HT4	VIS	PRECIP	PRES	TEM	DEW	WIND	GU	ALT	CLOUD	TC	TMX	TMN	PC	PCA	PRW	PAW	W2	AM	HT	CL	M	H	PR6	PT	DC	P24	SOG	GS	S24	SUN
YZR	00																																						
YZR	01																																						
YZR	02																																						
YZR	03																																						
YZR	04																																						
YZR	05																																						
YZR	06																																						
YZR	07																																						
YZR	08																																						
YZR	09																																						
YZR	10	1	SA	1000	-S	300				12	..	10137	10	9	0000		2994	CI																						
YZR	11	1	SA	1100	-S	300				12	..	10139	11	10	0000		2994	CI																						
YZR	12	1	SA	1200	-S	300				15	..	10138	13	10	1002		2994	CI																						

```
YZR 13   1 SA 1300 -S       3[illegible]          15 ..        10139  16  11 1903    2994 CI1
YZR 14   1 SA 1400 -S       300                   15 ..        10137  19  11 2503    2994 CI1
YZR 15   1 SA 1500 -S       300                   15 ..        10131  21  10 2306    2992 CI1
YZR 16   1 SA 1600 -B       300                   15 ..        10124  23  10 2104    2990 CI1
YZR 17   1 SA 1700  S-B     050  300              15 ..        10121  24  10 2105    2989 CU1CI2      2
YZR 18   1 SA 1800  S-B     050  300              15 ..        10113  24   9 2107    2987 CU1CI2      2
YZR 19   1 SA 1900  S-B     050  300              15 ..        10110  25   9 2207    2986 CU1CI1      2
YZR 20   1 SA 2000  S-B     050  300              15 ..        10101  25  10 2313    2983 CU1CI1      2
YZR 21
YZR 22
YZR 23

--- Date: 84/06/27  00:00 ---

 ID HR CNT TY TIME SKYAMT    HT1  HT2  HT3  HT4  VIS PRECIP      PRES TEM DEW WIND GU  ALT CLOUD       TC THX THN PC PCA PRW PAW W2 AM HT CL N H  PR6 PT DC  P24  SOG GS S24 SUN

YZR 00
YZR 01
YZR 02
YZR 03
YZR 04
YZR 05
YZR 06
YZR 07
YZR 08
YZR 09
YZR 10   1 SA 1000  B O     E045  090              12 ..        10010  21  15 1912    2957 SC8AC2      8
YZR 11  41 SA 1100  S O      045 E090              10 ..        10007  21  16 2013    2956 SC5AC5      8
YZR 12   1 SA 1200  B O     E045  090             6.0 RW-F      10008  20  17 1911    2956 SC8AC2      8                80
YZR 13  21 RS 1300  B O     E045  090             6.0 RW--F     10008  19  18 2010    2956 SC6AC4      8                80
YZR 14   1 SA 1400  S B      035 E090             6.0 F          9999  20  18 2013 21 2953 SC2AC7      6                10
YZR 15   1 SA 1500  B B     E020  090             7.0 ..         9994  23  18 2022 28 2952 CU7AC1      6
YZR 16   1 RS 1600  S B      020 E045             7.0 ..         9997  22  16 2213    2953 CF2SC7      6
YZR 17   1 SA 1700  S S      040  300              12 ..         9999  24  14 2620 25 2953 CU4CI1      2
YZR 18   1 SA 1800  S        045                   15 ..        10000  24  11 2518 24 2954 CU5         2
YZR 19
YZR 20   1 SA 2000  S B B    045 E060  300         15 ..        10019  23  11 2622 28 2959 CU4SC3CI1    6
YZR 21
YZR 22
YZR 23

--- Date: 84/06/28  00:00 ---

 ID HR CNT TY TIME SKYAMT    HT1  HT2  HT3  HT4  VIS PRECIP      PRES TEM DEW WIND GU  ALT CLOUD       TC THX THN PC PCA PRW PAW W2 AM HT CL N H  PR6 PT DC  P24  SOG GS S24 SUN

YZR 00
YZR 01
YZR 02
YZR 03
YZR 04
YZR 05
YZR 06
YZR 07
YZR 08
YZR 09
YZR 10   2 CO 1000  S        080                   15 ..        10099  15  13 2505    2982 ACC1        2
YZR 11   1 SA 1100  S        080                   15 ..        10103  16  13 2405    2983 AC2         2
YZR 12   1 SA 1200  S        080                   15 ..        10106  17  13 2505    2985 ACC1        2
YZR 13   1 SA 1300  S        080                   15 ..                  [illegible] 2984 AC1         2
YZR 14   1 SA 1400  S        030                   15 ..        10111  [illegible] 2408 2986 C[illegible]
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[redacted] 1 [redacted] S [redacted] 045 [redacted] 15 [redacted] 22 [redacted] 509 [redacted] CU3 [redacted]
YZR 16 1 SA 1600 S 050 15 .. 10111 23 10 2910 2986 CU3 2
YZR 17 1 SA 1700 S 050 15 .. 10113 24 11 2610 2987 CU5 2
YZR 18 1 SA 1800 B E050 15 .. 10109 24 11 2808 2988 CU6 6
YZR 19 1 SA 1900 S 060 15 .. 10109 25 10 2712 2986 CU4 2
YZR 20 1 SA 2000 S 060 15 .. 10108 25 10 2606 2986 CU3 2
YZR 21
YZR 22
YZR 23

--- Date: 84/06/29 00:00 ---

ID	HR	CNT	TY	TIME	SKYAMT	HT1	HT2	HT3	HT4	VIS	PRECIP	PRES	TEM	DEW	WIND	GU	ALT	CLOUD	TC	THX	THN	PC	PCA	PRW	PAW	W2	AM	HT	CL	M	H	PR6	PT	DC	P24	SOG	GS	S24	SUN
YZR 00																																							
YZR 01																																							
YZR 02																																							
YZR 03																																							
YZR 04																																							
YZR 05																																							
YZR 06																																							
YZR 07																																							
YZR 08																																							
YZR 09																																							
YZR 10	1	SA	1000	S	S	050	090			15	..	10135	15	13	0106		2993	SC1AC1	2																				
YZR 11	1	SA	1100	S		090				15	..	10140	15	13	0209		2995	AC1	2																				
YZR 12	1	SA	1200	S	S S	025	080	300		15	..	10146	16	12	0209		2997	CU1ACC1CI1	2																				
YZR 13	1	SA	1300	S		025				15	..	10152	16	12	0209		2998	CU3	2																				
YZR 14	1	SA	1400	S		025				15	..	10157	16	12	0110		3000	CU4	2																				
YZR 15	1	SA	1500	S		025				15	..	10159	17	12	3608		3000	CU3	2																				
YZR 16	1	SA	1600	S	B	020	E030			15	..	10159	17	12	3607		3000	CU2SC7	6																				
YZR 17	1	SA	1700	S	O	025	035			15	..	10165	16	12	0207		3002	CU3SC7	8																				
YZR 18	1	SA	1800	B	O	E020	035			15	..	10162	16	12	0310		3001	CU6SC4	8																				
YZR 19	1	SA	1900	B	O	E010	035			15	..	10163	16	12	0111		3001	SC8SC2	8																				
YZR 20	1	SA	2000	B	O	E010	035			15	..	10163	16	12	0209		3001	SC8SC2	8																				
YZR 21																																							
YZR 22																																							
YZR 23																																							

--- Date: 84/06/30 00:00 ---

ID	HR	CNT	TY	TIME	SKYAMT	HT1	HT2	HT3	HT4	VIS	PRECIP	PRES	TEM	DEW	WIND	GU	ALT	CLOUD	TC	THX	THN	PC	PCA	PRW	PAW	W2	AM	HT	CL	M	H	PR6	PT	DC	P24	SOG	GS	S24	SUN
YZR 00																																						
YZR 01																																						
YZR 02																																						
YZR 03																																						
YZR 04																																						
YZR 05																																						
YZR 06																																						
YZR 07																																						
YZR 08																																						
YZR 09																																						
YZR 10	1	SA	1100	S		016				15	..	10156	14	12	0207		3000	SC5	2																				
YZR 11	1	SA	1100	S		016				15	..	10155	15	13	0308		2999	SC3	2																				
YZR 12	1	SA	1200	S	S S	016	030	120		15	..	10161	16	13	0407		3001	CF1SC1AC1	2																				
YZR 13	1	SA	1300	B	B	E016	120			15	..	10166	16	13	0207		3002	SC8AC1	6																				
YZR 14	11	SA	1400	B	B	E016	120			15	..	10169	17	14	3610		3003	SC7AC1	6																				
YZR 15	1	SA	1500	B		B007				15	..	10172	17	14	0111		3004	SC9	6																				
YZR 16	1	SA	1600	O		B007				10	..	10172	16	15	3510		3004	SC10	8																				

```
YZR 17   1 SA 1700  0       E007                15 ..          10170  17  14 3613 19 3003 SC9          8
YZR 18   1 SA 1800  S-S      007  240            15 ..          10167  17  14 3512    3002 SC2CI1       2
YZR 19
YZR 20
YZR 21
YZR 22
YZR 23

--- Date: 84/07/01  00:00 ---

 ID HR CNT TY TIME SKYAMT    HT1  HT2  HT3  HT4  VIS PRECIP      PRES TEM DEW WIND GU  ALT CLOUD        TC THX THN PC PCA PRW PAW W2 AM HT CL N H  PR6 PT DC  P24  SOG GS S24 SUN

YZR 00
YZR 01
YZR 02
YZR 03
YZR 04
YZR 05
YZR 06
YZR 07
YZR 08
YZR 09
YZR 10   1 SA 1000 -S       240                 15 ..          10184  15  14 3408    2904 CI1
YZR 11   1 SA 1100  S       240                 15 ..          10157  16  15 3303    3000 CI1          2
YZR 12   1 SA 1200  S       240                 15 ..          10161  17  15 3306    3001 CI2          2
YZR 13   1 SA 1300  S       240                 15 ..          10167  18  15 3308    3003 CI2          2
YZR 14   1 SA 1400  S       240                 15 ..          10170  19  15 3208    3004 CI3          2
YZR 15   1 SA 1500  S S     020  240            15 ..          10175  19  15 3306    3004 CU1CI4       2
YZR 16   1 SA 1600  S-B     020  240            15 ..          10176  20  15 3506    3005 CU1CI4       2
YZR 17   1 SA 1700  S-B     020  240            15 ..          10177  20  15 3306    3005 CU1CI4       2
YZR 18   1 SA 1800  S-B     020  240            15 ..          10173  21  14 3306    3004 CU1CI4       2
YZR 19
YZR 20
YZR 21
YZR 22
YZR 23

--- Date: 84/07/02  00:00 ---

 ID HR CNT TY TIME SKYAMT    HT1  HT2  HT3  HT4  VIS PRECIP      PRES TEM DEW WIND GU  ALT CLOUD        TC THX THN PC PCA PRW PAW W2 AM HT CL N H  PR6 PT DC  P24  SOG GS S24 SUN

YZR 00
YZR 01
YZR 02
YZR 03
YZR 04
YZR 05
YZR 06
YZR 07
YZR 08
YZR 09
YZR 10   1 SA 1000  S B B   025 E120  240         12 ..          10175  14  14 1503    3004 SC2AC4CI1    6
YZR 11   1 SA 1100  S B B   025 E120  240          8 ..          10176  15  14 1607    3005 SC2AC4CI1    6
YZR 12   1 SA 1200  S S S   025  120  240          8 ..          10179  17  15 1703    3006 SC1AC3CI1    2
YZR 13   1 SA 1300  S-B      120  240              8 ..          10178  21  15 2202    3006 AC3CI1       2
YZR 14   1 SA 1400  S-B      120  240             12 ..          10177  24  14 2404    3005 ACC1CI3      2
YZR 15   1 SA 1500 -B       240                  15 ..          10172  25  12 1803    3004 CI2
YZR 16   1 SA 1600  S B      040 E240             15 ..          10168  26  13 1503    3003 CU1CI5       6
YZR 17   1 SA 1700  S B      040 E240             15 ..          10166  27  13 2504    3003 CU3CI4       6
YZR 18   1 SA 1800  S B      040  240             15 ..          10164  27  12 2503    3003 CU3CI3       6
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[redacted] 1 SA [redacted] B B [redacted] [redacted] [redacted]

YZR 21
YZR 22
YZR 23

--- Date: 84/07/05 00:00 ---

ID	HR	CNT	TY	TIME	SKYAMT	HT1	HT2	HT3	HT4	VIS	PRECIP	PRES	TEM	DEW	WIND	GU	ALT	CLOUD	TC	TMX	TMN	PC	PCA	PRW	PAW	W2	AM	HT	CL	N	H	PR6	PT	DC	P24	SOG	GS	S24	SUN
YZR	00																																						
YZR	01																																						
YZR	02																																						
YZR	03																																						
YZR	04																																						
YZR	05																																						
YZR	06																																						
YZR	07																																						
YZR	08																																						
YZR	09																																						
YZR	10	1	SA	1000	-X-B		300			.8	F	10080	17	17	1803		2977	F3C12																	10				
YZR	11	11	SA	1100	-X O		E300			.8	F	10082	17	17	2101		2977	F3C14	8																10				
YZR	12	11	SA	1200	-X S O		120	E300		1.0	F	10083	19	18	0000		2977	F2AC1C13	8																10				
YZR	13	1	SA	1300	S O		120	E250		4.0	H	10085	21	17	3202		2978	AC2CS6	8																05				
YZR	14	1	SA	1400	S B		120	E180		4.0	H	10087	21	16	3302		2979	AC3AS5	6																05				
YZR	15	1	SA	1500	B		E120			4.0	H	10085	20	16	3505		2979	AC9	6																05				
YZR	16	1	SA	1600	O		E120			6.0	H	10084	23	17	0902		2979	AC10	8																05				
YZR	17	1	SA	1700	S B		024	E120		5.0	H	10081	24	19	3305		2977	CU1ACB	6																05				
YZR	18	1	SA	1800	S O		07	E120		5.0	H	10082	21	18	3605		2997	TCU3AC7	8																05				
YZR	19	11	SA	1900	O		E030			6.0	T RW-H	10080	19	17	3607		2977	SC10	8																95				
YZR	20	1	SA	2000	B B		E030	100		6.0	H	10079	19	17	3604		2976	TCU7AC2	6																05				
YZR	21																																						
YZR	22																																						
YZR	23																																						

--- Date: 84/07/06 00:00 ---

ID	HR	CNT	TY	TIME	SKYAMT	HT1	HT2	HT3	HT4	VIS	PRECIP	PRES	TEM	DEW	WIND	GU	ALT	CLOUD	TC	TMX	TMN	PC	PCA	PRW	PAW	W2	AM	HT	CL	N	H	PR6	PT	DC	P24	SOG	GS	S24	SUN
YZR	00																																						
YZR	01																																						
YZR	02																																						
YZR	03																																						
YZR	04																																						
YZR	05																																						
YZR	06																																						
YZR	07																																						
YZR	08																																						
YZR	09																																						
YZR	10	11	SA	1000	-X O		E011			1.5	F	10069	19	18	2002		2973	F4SC6	8																10				
YZR	11	21	RS	1100	-X O		E013			.8	T RW+F	10086	18	18	3017	36	2978	F4SC6	8																97				
YZR	12	11	SA	1200	S S B	007	013	E030		15	..	10061	16	16	3207		2971	SF1SC1SC4	6																				
YZR	13	11	SA	1300	B B	E030	080			15	RW-	10063	16	16	1506		2972	SC6AC3	6																80				
YZR	14	1	SA	1400	O	E030				15	..	10064	18	16	1907		2973	SC10	8																				
YZR	15	1	SA	1500	S B	015	E030			15	..	10060	18	16	1910		2971	SC1SC8	6																				
YZR	16	1	SA	1600	S B	015	E030			15	..	10057	20	16	2609		2970	SC3SC6	6																				
YZR	17	11	SA	1700	B B	E030	150			15	..	10059	20	15	2712		2971	CU6AC3	6																				
YZR	18	21	RS	1800	S B	015	E030			15	T	10056	22	14	2508		2970	CU4TCU4	6																17				
YZR	19	1	RS	1900	S B	015	E030			15	..	10055	19	15	2808		2970	CF1TCU6	6																				
YZR	20	21	SA	2000	B	E030				15	RW--	10055	22	14	3520	30	2970	TCU8	6																80				
YZR	21																																						
YZR	22																																						

--- Date: 84/07/07 00:00 ---

ID	HR	CNT	TY	TIME	SKYAMT	HT1	HT2	HT3	HT4	VIS	PRECIP	PRES	TEM	DEW	WIND	GU	ALT	CLOUD	TC	TMX	TMN	PC	PCA	PRW	PAW	W2	AM	HT	CL	N	H	PR6	PT	DC	P24	SOG	GS	S24	SUN
YZR	00																																						
YZR	01																																						
YZR	02																																						
YZR	03																																						
YZR	04																																						
YZR	05																																						
YZR	06																																						
YZR	07																																						
YZR	08																																						
YZR	09																																						
YZR	10	1	SA	1000	S	030				15	..	10131	10	6	2708		2992	SC1	2																				
YZR	11	1	SA	1100	S	030				15	..	10138	11	6	2610		2994	SC3	2																				
YZR	12	1	SA	1200	B	E030				15	..	10142	12	7	2713	20	2995	SC7	6																				
YZR	13	1	SA	1300	S	B	B	025	E030	240	15	..	10146	13	7	2814	21	2996	CU2SC4CI2	6																			
YZR	14	1	SA	1400	B	B	B	E020	030	240	15	..	10148	13	7	2913	21	2997	CU6SC1CI1	6																			
YZR	15	1	SA	1500	S	B		013	E020		15	..	10155	14	9	2714	22	2999	CF3SC6	6																			
YZR	16	1	SA	1600	B	B		E013	020		15	..	10160	15	8	2813	19	3001	SC7SC2	6																			
YZR	17	1	SA	1700	B	B		E013	020		15	..	10163	15	8	3011		3001	SC7SC2	6																			
YZR	18	1	SA	1800	B	B		E013	020		15	..	10171	16	8	3012		3003	SC7SC2	6																			
YZR	19																																						
YZR	20																																						
YZR	21																																						
YZR	22																																						
YZR	23																																						

--- Date: 84/07/08 00:00 ---

ID	HR	CNT	TY	TIME	SKYAMT	HT1	HT2	HT3	HT4	VIS	PRECIP	PRES	TEM	DEW	WIND	GU	ALT	CLOUD	TC	TMX	TMN	PC	PCA	PRW	PAW	W2	AM	HT	CL	N	H	PR6	PT	DC	P24	SOG	GS	S24	SUN
YZR	00	1																																				
YZR	01	1																																				
YZR	02	1																																				
YZR	03	1																																				
YZR	04	1																																				
YZR	05	1																																				
YZR	06	1																																				
YZR	07	1																																				
YZR	08	1																																				
YZR	09	1																																				
YZR	10	1	SA	1000	-S	250				12	..	10209	9	8	2102		3014	CI0	2																				
YZR	11	1	SA	1100																																				
YZR	12	1	SA	1200	-S	250				15	..	10215	13	10	2503		3016	CI1	2		0	10	00				9	0	0	1								
YZR	13	1	SA	1300	-B	250				15	..	10214	16	10	2602		3016	CI1	6		2	7	00				9	0	0	1								
YZR	14	1			S-S	030	250			15	..	10215	19	8	2702		3016	CF1CI0	2				00			1	5	1	0	1								
YZR	15	1			S-S	030	250			15	..	10213	19	5	3403		3016	CF1CI0	2		4	0	00			1	5	1	0	1								
YZR	16	1	SA	1600	S-S	030	250			15	..	10216	20	6	0203		3017	CF1CI1	2		2	3	00			1	5	1	0	1								
YZR	17	1	SA	1700	S-S	030	250			15	..	10218	20	8	0503		3018	CF1CI1	2		2	7	00			1	5	1	0	1								
YZR	18	1	SA	1800	S	030				15	..	10216	21	9	0205		3017	CU3	2		2	3	00			2	5	1	0	0								
YZR	19	1																																				
YZR	20	1																																				
YZR	21	1																																				
YZR	22	1																																				
YZR	23	1																																				

--- Date: 84/07/09 00:00 ---

ID	HR	CNT	TY	TIME	SKYAMT	HT1	HT2	HT3	HT4	VIS	PRECIP	PRES	TEM	DEW	WIND	GU	ALT	CLOUD	TC	THX	THN	PC	PCA	PRW	PAW	W2	AM	HT	CL	N	H	PR6	PT	DC	P24	SOG	GS	S24	SUN
YZR	00																																						
YZR	01																																						
YZR	02																																						
YZR	03																																						
YZR	04																																						
YZR	05																																						
YZR	06																																						
YZR	07																																						
YZR	08																																						
YZR	09																																						
YZR	10	1	SA	1000	B	E030				15	..	10181	16	13	1605		3007	SC9	6																				
YZR	11	1	SA	1100	B	E030				15	..	10176	17	13	1607		3006	SC7	6																				
YZR	12	1	SA	1200	S B	030	E120			15	..	10174	19	14	1710		3005	SC1AC5	6																				
YZR	13	1	SA	1300	B	E120				15	..	10174	21	15	1909		3005	AC9	6																				
YZR	14	1	SA	1400	O	E080				15	..	10176	21	15	1908		3006	AC10	8																				
YZR	15	1	SA	1500	B B	E080	240			15	..	10169	22	14	1810		3003	AC8CC1	6																				
YZR	16	1	SA	1600	O	E080				15	..	10168	22	15	1910		3003	AC10	8																				
YZR	17	1	SA	1700	O	E080				15	..	10160	22	14	1812		3001	AC10	8																				
YZR	18	1	SA	1800	S B	080	E240			15	..	10145	23	15	1819		2997	AC3CI3	6																				
YZR	19	1	SA	1900	S	240				15	..	10138	24	14	1814		2995	CI4	2																				
YZR	20	1	SA	2000	S B	120	E240			15	..	10133	24	15	1813	20	2993	AC1CI6	6																				
YZR	21																																						
YZR	22																																						
YZR	23																																						

--- Date: 84/07/10 00:00 ---

ID	HR	CNT	TY	TIME	SKYAMT	HT1	HT2	HT3	HT4	VIS	PRECIP	PRES	TEM	DEW	WIND	GU	ALT	CLOUD	TC	THX	THN	PC	PCA	PRW	PAW	W2	AM	HT	CL	N	H	PR6	PT	DC	P24	SOG	GS	S24	SUN
YZR	00																																						
YZR	01																																						
YZR	02																																						
YZR	03																																						
YZR	04																																						
YZR	05																																						
YZR	06																																						
YZR	07																																						
YZR	08																																						
YZR	09																																						
YZR	10	1	SA	1000	B	E120				2.0	F	10097	21	20	1906		2982	AC7	6		10																		
YZR	11	11	SA	1100	S B	120	E240			2.0	F	10104	20	19	1703		2985	AC4CI4	6		10																		
YZR	12	11	SA	1200	S B	025	E100			3.0	T F	10099	21	20	0305		2983	CB1AC8	6		17																		
YZR	13	1	RS	1300	S B B	025	E100	220		3.0	F	10101	21	20	2006		2983	TCU1AC7CC1	6		10																		
YZR	14	1	SA	1400	S O	025	E100			3.0	H	10105	24	20	2406		2985	CF1AC9	8		05																		
YZR	15	1	SA	1500	B O	E025	100			3.0	H	10106	23	19	2706		2985	SC8AC1	8		05																		
YZR	16	1	SA	1600	S B	025	E240			6.0	H	10107	27	21	3003		2985	CF1CI8	6		05																		
YZR	17	1	SA	1700	S O	025	E1*			10	..	10107	28	21	2706		2985	CF1AC9	8																				
YZR	18	1	SA	1800	B	E100				15	..	10105	28	21	2708		2985	AC9	6																				
YZR	19	1	SA	1900	S B	030	E100			15	..	10101	29	21	2905		2984	CU3AC5	6																				
YZR	20	1	SA	2000	S B	030	E100			15	..	10097	27	22	0307		2983	CU4AC5	6																				
YZR	21																																						
YZR	22																																						
YZR	23																																						

--- Date: 84/07/11 00:00 ---

[redacted] ID HR CNT TY TIME SKYAMT HT1 HT2 HT3 HT4 VIS PRECIP [redacted] PRES TEM DEW WIND GU ALT CLOUD [redacted] TC TMX TMN PC PCA PRW PAW W2 AM HT CL N H PR6 PT DC P24 SOG GS S24 SUN [redacted]

YZR 00
YZR 01
YZR 02
YZR 03
YZR 04
YZR 05
YZR 06
YZR 07
YZR 08
YZR 09
YZR 10 1 SA 1000 B 0 E040 120 15 RW- 10033 21 19 2310 2963 SC7AC3 8 80
YZR 11 1 SA 1100 B 0 E040 120 15 RW- 10042 22 19 2409 2965 SC7AC3 8 80
YZR 12 1 SA 1200 0 E040 15 RW- 10043 21 20 2509 2967 SC10 8 80
YZR 13 1 SA 1300 B 0 E020 040 15 RW- 10046 22 20 2407 2968 SC7SC3 8 80
YZR 14 10
YZR 15 1 SA 1500 -X 0 E020 2.0 RW-F 10054 19 18 3511 2970 F2SC8 8 80
YZR 16 1 SA 1600 -X 0 E020 2.0 RW-F 10060 19 18 3410 2971 F2SC8 8 80
YZR 17 2 SA 1700 -X 0 A004 2.0 RW-F 10065 18 17 3614 2973 F4SC6 8 80
YZR 18 11 SA 1800 -X 0 8004 2.0 RW-F 10071 18 17 3312 2974 F3SC7 8 80
YZR 19 1 SA 1900 S 0 004 E014 6.0 RW-F 10073 19 18 3207 2975 SF1SC9 8 80
YZR 20 1 RS 2000 B B E014 030 15 .. 10071 19 18 3307 2974 SC6AC3 6
YZR 21
YZR 22
YZR 23

--- Date: 84/07/12 00:00 ---

ID HR CNT TY TIME SKYAMT HT1 HT2 HT3 HT4 VIS PRECIP PRES TEM DEW WIND GU ALT CLOUD TC TMX TMN PC PCA PRW PAW W2 AM HT CL N H PR6 PT DC P24 SOG GS S24 SUN

YZR 00
YZR 01
YZR 02
YZR 03
YZR 04
YZR 05
YZR 06
YZR 07
YZR 08
YZR 09
YZR 10 1 SA 1000 C 15 .. 10111 17 14 2304 2986 0
YZR 11 1 SA 1100 C 15 .. 10114 17 14 2403 2987 0
YZR 12 1 SA 1200 C 15 .. 10115 19 15 2404 2988 0
YZR 13 1 SA 1300 S S 030 100 15 .. 10118 21 15 1904 2989 CF1AC1 2
YZR 14 1 SA 1400 S S B 030 100 E220 15 .. 10118 24 15 2507 2989 CU1AC1CC5 6
YZR 15 1 SA 1500 S S S 030 100 220 15 .. 10116 25 16 2307 2988 CU1AC1CC3 2
YZR 16 1 SA 1600 S 030 15 .. 10117 27 17 2312 2988 CU1 2
YZR 17 1 SA 1700 S 030 15 .. 10115 28 17 2910 2988 CU2 2
YZR 18 1 SA 1800 S 030 15 .. 10116 28 18 2808 2988 CU2 2
YZR 19 1 SA 1900 S 030 15 .. 10115 29 16 2908 2988 CU2 2
YZR 20 1 SA 2000 S 030 15 .. 10114 28 17 3108 2988 CU3 2
YZR 21
YZR 22
YZR 23

--- Date: 84/07/13 00:00 ---

ID HR CNT TY TIME SKYAMT HT1 HT2 HT3 HT4 VIS PRECIP PRES TEM DEW WIND GU ALT CLOUD TC TMX TMN PC PCA PRW PAW W2 AM HT CL N H PR6 PT DC P24 SOG GS S24 SUN

```
YZR 00
YZR 01
YZR 02
YZR 03
YZR 04
YZR 05
YZR 06
YZR 07
YZR 08
YZR 09
YZR 10   1 SA 1000  S        080              6.0 F      10139  16  15 2002   2995 ACC1          2              10
YZR 11   1 SA 1100  S        080              7.0 ..     10145  16  15 0000   2997 ACC1          2
YZR 12   1 SA 1200  S        080                8 ..     10152  19  17 2004   2999 ACC1          2
YZR 13   1 SA 1300  S        080               10 ..     10156  23  18 2203   3000 ACC1          2
YZR 14   1 SA 1400  S        090               15 ..     10156  26  17 2506   3000 AC1           2
YZR 15   1 SA 1500  S        090               15 ..     10159  27  17 2606   3001 AC1           2
YZR 16   1 SA 1600  S S      090  300          15 ..     10162  28  17 2706   3002 ACC1CI1       2
YZR 17   1 SA 1700 -S        300               15 ..     10162  28  15 2806   3002 CI2
YZR 18   1 SA 1800  S-B      040  300          15 ..     10160  28  17 0105   3001 CU1CI2        2
YZR 19   1 SA 1900  S-B      040  300          15 ..     10158  29  18 0104   3001 CU2CI2        2
YZR 20   1 SA 2000  S-B      040  300          15 ..     10155  29  17 1504   3000 CU2CI2        2
YZR 21
YZR 22
YZR 23

--- Date: 84/07/14  00:00 ---

 ID HR CNT TY TIME SKYAMT    HT1  HT2  HT3  HT4  VIS PRECIP      PRES TEM DEW WIND GU  ALT CLOUD        TC TMX TMN PC PCA PRW PAW W2 AM HT CL N H  PR6 PT DC  P24  SOG GS S24 SUN

YZR 00
YZR 01
YZR 02
YZR 03
YZR 04
YZR 05
YZR 06
YZR 07
YZR 08
YZR 09
YZR 10   1 SA 1000  C                          3.0 F      10174  19  17 2005   3005              0              10
YZR 11   1 SA 1100 -S        300               3.0 F      10177  19  17 1905   3006 CI                        10
YZR 12   1 SA 1200 -S        300               3.0 F H    10178  21  17 1904   3006 CI1                       10
YZR 13   1 SA 1300 -B        300               6.0 H      10179  24  19 2105   3007 CI2                       05
YZR 14   1 SA 1400 -B        300               7.0 ..     10189  26  18 2405   3010 CI3
YZR 15   1 SA 1500 -B        300                10 ..     10187  29  16 2407   3009 CI2
YZR 16   1 SA 1600 -B        300                12 ..     10187  30  18 2508   3009 CI2
YZR 17   1 SA 1700  S-B      050  300           12 ..     10185  30  17 2309   3009 CU1CI2        2
YZR 18   1 SA 1800  S-B      050  250           15 ..     10181  31  17 2309   3007 CU1CI3        2
YZR 19
YZR 20
YZR 21
YZR 22
YZR 23

--- Date: 84/07/15  00:00 ---

 ID HR CNT TY TIME SKYAMT    HT1  HT2  HT3  HT4  VIS PRECIP      PRES TEM DEW WIND GU  ALT CLOUD        TC TMX TMN PC PCA PRW PAW W2 AM HT CL N H  PR6 PT DC  P24  SOG GS S24 SUN

YZR 00
YZR 01
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YZR 02
YZR 03
YZR 04
YZR 05
YZR 06
YZR 07
YZR 08
YZR 09
YZR 10   1 SA 1000 -B      250          4.0 F      10187  22  19 2007   3009 CI3                    10
YZR 11   2 CO 1100 -O      250          4.0 F      10132  21  20 1906    2993 CI4                   10
YZR 12   1 SA 1200  S O    100 E250     3.0 F      10129  22  19 1807   2992 AC4CI2       8         10
YZR 13   1 SA 1300  B O   E100  250     4.0 H      10125  24  19 2009   2991 AC7CI3       8         05
YZR 14   1 SA 1400  O      E100         4.0 H      10122  25  20 2008   2990 AC10         8         05
YZR 15   1 SA 1500  B O   E100  220     3.0 H      10120  25  20 2107   2989 AC6CS3       8         05
YZR 16   2 CO 1600  B      E100         4.0 H      10112  27  19 2112   2987 AC7          6         05
YZR 17   1 SA 1700  B O   E050  100     4.0 H      10106  27  18 2111   2985 SC7AC3       8         05
YZR 18   1 SA 1800  B O   E050  100     3.0 H      10100  26  20 2009   2983 SC9AC1       8         05
YZR 19
YZR 20
YZR 21
YZR 22
YZR 23

--- Date: 84/07/16  00:00 ---

 ID HR CNT TY TIME SKYAMT    HT1  HT2  HT3  HT4  VIS PRECIP      PRES TEM DEW WIND GU  ALT CLOUD        TC TMX TMN PC PCA PRW PAW W2 AM HT CL M H  PR6 PT DC  P24  SOG GS S24 SUN

YZR 00
YZR 01
YZR 02
YZR 03
YZR 04
YZR 05
YZR 06
YZR 07
YZR 08
YZR 09
YZR 10   1 SA 1000  S S    035  120          15 ..      10089  18  15 2707   2980 CF1AC2       2
YZR 11   1 SA 1100  S       120              15 ..      10096  18  15 2910    2982 AC1         2
YZR 12   1 SA 1200  S       120              15 ..      10098  19  15 2910   2983 AC1          2
YZR 13   1 SA 1300  C                        15 ..      10097  21  14 2811   2982              0
YZR 14   1 SA 1400  S       030              15 ..      10096  22  14 2912   2982 CU1          2
YZR 15   1 SA 1500  B      E030              15 ..      10098  22  14 2913   2983 CU6          6
YZR 16   1 SA 1600  B      E030              15 ..      10099  23  13 2713   2983 CU6          6
YZR 17   1 SA 1700  B      E030              15 ..      10097  23  13 3013   2982 CU6          6
YZR 18   1 SA 1800  B      E030              15 ..      10099  23  13 3014   2983 SC9          6
YZR 19   1 SA 1900  B      E030              15 ..      10100  23  13 3109   2983 SC9          6
YZR 20   1 SA 2000  B      E030              15 ..      10100  24  14 3009   2983 SC8          6
YZR 21
YZR 22
YZR 23

--- Date: 84/07/17  00:00 ---

 ID HR CNT TY TIME SKYAMT    HT1  HT2  HT3  HT4  VIS PRECIP      PRES TEM DEW WIND GU  ALT CLOUD        TC TMX TMN PC PCA PRW PAW W2 AM HT CL M H  PR6 PT DC  P24  SOG GS S24 SUN

YZR 00
YZR 01
YZR 02
YZR 03
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YZR 04
YZR 05
YZR 06
YZR 07
YZR 08
YZR 09
YZR 10   1 SA 1000  S S      120  230          15 ..          10083  15  11 1906    2978 ACC1CC2       2
YZR 11   1 SA 1100  B B B   E030  120  230     15 ..          10082  15  13 1906    2978 SC6ACC1CC2    6
YZR 12   1 SA 1200  B O     E120  230          15 ..          10079  17  14 1805    2977 AC7CC3        8
YZR 13   1 SA 1300  B O     E090  230          15 ..          10075  19  14 2008    2976 AC9CC1        8
YZR 14   1 SA 1400  O       E090               15 ..          10071  20  14 2107    2974 AC10          8
YZR 15  11 SA 1500  S O      030 E090          15 ..          10069  23  13 2210    2974 SC4AC6        8
YZR 16   1 SA 1600  O       E030               15 RW-         10071  20  15 2309    2974 SC10          8              80
YZR 17  11 SA 1700  B B     E030  090          15 RW-         10066  20  16 2008    2973 SC6AC2        6              80
YZR 18   1 SA 1800  S S S   030  090  230      15 ..          10065  22  15 2111 18 2972 CU1AC3CC1     2
YZR 19   1 SA 1900  B B     E030  090          15 ..          10059  24  15 2214    2970 CU6AC2        6
YZR 20  41 SA 2000  B B     E030  090          15 ..          10049  24  17 1813 20 2967 CU6AC2        6
YZR 21  11 SA 2100  B       E030               5.0 T RW       10049  17  17 2407    2968 SC9           6              95
YZR 22  21 RS 2200  B       E030               10 T RW-       10045  19  18 2010    2967 CB8           6              95
YZR 23   1 SA 2300  B       E030               15 ..          10045  21  19 2104    2967 TCU7          6.

--- Date: 84/07/18  00:00 ---

 ID HR CNT TY TIME SKYAMT    HT1  HT2  HT3  HT4  VIS PRECIP      PRES TEM DEW WIND CU  ALT CLOUD        TC TMX TMN PC PCA PRW PAW W2 AH HT CL M H  PR6 PT DC  P24  SOG GS S24 SUN

YZR 00
YZR 01
YZR 02
YZR 03
YZR 04
YZR 05
YZR 06
YZR 07
YZR 08
YZR 09
YZR 10   1 SA 1000  B       E030               15 ..          10064  15  12 2606    2971 SC7           6
YZR 11   1 SA 1100  B B     E090  250          15 ..          10069  15  12 2706    2973 AC7CC1        6
YZR 12   1 SA 1200  B       E090               15 ..          10070  16  13 2909    2974 AC9           6
YZR 13  11 SA 1300  S B O    011 E030  090      15 ..          10077  16  14 3010    2976 CF1SC5AC4     8
YZR 14  11 SA 1400  B B     E011  030          6.0 RW-F       10083  16  14 2811    2977 SC7SC2        6              80
YZR 15   1 SA 1500  B B     E015  220          15 ..          10089  18  14 3011    2979 CU6C11        6
YZR 16   1 SA 1600  B       E015               15 ..          10095  19  13 3012    2981 CU8           6
YZR 17   1 SA 1700  B B     E015  120          15 ..          10101  19  14 3508    2983 CU8AC1        6
YZR 18   1 SA 1800  S B      015 E025          15 ..          10105  18  14 0110    2984 CF2SC7        6
YZR 19   1 SA 1900  S B      015 E025          15 ..          10108  18  14 0112    2985 CF1SC5        6
YZR 20   1 SA 2000  S B      015 E025          15 ..          10113  19  15 3512    2986 CF1SC4        6
YZR 21
YZR 22
YZR 23
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Environment Canada / Environnement Canada
Atmospheric Environment Service / Service de l'environnement atmosphérique

MONTHLY METEOROLOGICAL SUMMARY
SOMMAIRE MÉTÉOROLOGIQUE MENSUEL

MONTH/MOIS JUNE / JUIN 1984

AT/À WINDSOR AIRPORT / AEROPORT DE WINDSOR

LAT: 42 ° 16 'N LONG: 82 ° 59 'W ELEVATION: ALTITUDE: 194.5 METRES (ASL) MÈTRES (NMM) STANDARD TIME USED: HEURE NORMALE UTILISÉE: Eastern E.S.T.

DATE	TEMPERATURE TEMPÉRATURE			DEGREE-DAYS DEGRÉS-JOURS		REL. HUMIDITY HUMIDITÉ REL.		THUNDERSTORM ORAGE	PRECIPITATION PRÉCIPITATIONS			SNOW ON GROUND NEIGE AU SOL	WIND VENT			COOLING DEGREE DAYS BASE 18 C
	MAXIMUM MAXIMALE °C	MINIMUM MINIMALE °C	MEAN MOYENNE °C	HEATING DE CHAUFFE BASE 18.0°C	GROWING DE CROISSANCE BASE 5.0°C	MAXIMUM MAXIMALE %	MINIMUM MINIMALE %		RAINFALL PLUIE (HAUTEUR) mm	SNOWFALL NEIGE (HAUTEUR) cm	TOTAL PRECIP. PRÉCIP. TOTALE mm	cm	AVERAGE SPEED VITESSE MOYENNE km/h	PREVAILING DIRECTION DIRECTION DOMINANTE	MAXIMUM SPEED AND DIRECTION VITESSE MAXIMALE ET DIRECTION km/h	HOURS HEURES
1	23.8	10.5	17.2	0.8	12.2	88	44						6.6	S	17 S	
2	24.0	12.1	18.1		13.1	100	40	1	15.6		15.6		9.9	ESE	17 ESE	0.1
3	16.0	14.2	20.1		15.1	88	32						14.3	WNW	24 WNW	2.1
4	26.3	12.2	19.3		14.3	82	36						8.5	SW	20 SSW	1.3
5	28.8	16.5	22.7		17.7	83	48		0.7		0.7		14.4	S	24 SSW	4.7
6	29.9	19.0	24.5		19.5	88	59	1	0.2		0.2		13.8	SSW	22 SSW	6.5
7	30.4	20.1	25.3		20.3	83	40		TR		TR		18.5	SSW	30 SSW	7.3
8	30.3	21.5	25.9		20.9	78	55						25.6	SSW	41 S	7.9
9	31.8	20.7	26.3		21.3	83	41		0.4		0.4		13.5	SW	24 SW	8.3
10	31.7	20.9	26.3		21.3	78	41		TR		TR		20.0	SSW	33 SSW	8.3
11	24.3	15.1	19.7		14.7	94	47						12.1	WNW	22 WNW	1.7
12	30.7	13.4	22.1		17.1	94	43						10.5	S	22 S	4.1
13	33.1	20.0	26.6		21.6	100	46	1	12.4		12.4		12.3	SSW	22 WSW	8.6
14	24.1	11.4	17.8	0.2	12.8	94	57						14.8	SVRL	26 ENE	
15	20.2	11.4	15.8	2.2	10.8	82	45						11.5	ENE	19NE/ENE	2.2
16	24.7	10.7	17.7	0.3	12.7	94	50		1.0		1.0		7.7	S/ESE	13 ESE	0.3
17	30.0	17.1	23.6		18.6	100	66	1	3.0		3.0		12.3	SW	20 SW	
18	31.4	20.7	26.1		21.1	100	59	1	19.8		19.8		16.3	SW	30 SW	
19	27.2	17.2	22.2		17.2	94	78						8.5	NE	22 NE	
20	25.9	15.4	20.7		15.7	88	50						10.8	NE	17NNE	2.7
21	25.2	14.0	19.6		14.6	94	39						8.3	ENE	13ENE	1.6
22	26.9	14.4	20.7		15.7	88	37						11.8	ESE	19ESE	2.7
23	27.1	16.8	22.0		17.0	88	66	1	1.5		1.5		11.5	SSE	20SSE	4.0
24	25.5	15.5	20.5		15.5	94	34		TR		TR		19.4	WNW	30WNW	2.5
25	23.7	14.3	19.0		14.0	82	36		0.3		0.3		13.1	NW	30NNW	1.0
26	27.0	12.3	19.7		14.7	82	32						10.2	SSW	17SSW	1.7
27	26.0	16.3	21.2		18.2	88	47		2.9		2.9		23.3	W	35SW	3.2
28	28.1	16.3	22.2		17.2	82	35						11.8	WSW	19WSW	4.2
29	22.4	13.7	18.1		13.1	88	60						15.7	NE	26NE	0.1
30	23.9	13.7	18.8		13.8	83	53						14.6	NE	24NE	0.8
31																
MEAN MOYENNE	27.0	15.6	21.3	TOTAL 3.5	TOTAL 489.8	88.7	46.5	TOTAL 6	TOTAL 57.8	TOTAL	TOTAL 57.8		13.4	PREVAILING SSW DOMINANTE	MAXIMUM 41S	TOTAL 103.3
NORMAL NORMALE	25.3	14.1	19.7	27.6	441.9			6.0	89.3		89.3		14.8	SSW		79.4

DEGREE-DAY SUMMARY – SOMMAIRE DE DEGRÉS-JOURS

BELOW 18°C AU-DESSOUS DE 18°C	THIS YEAR ANNÉE EN COURS	PREVIOUS YEAR ANNÉE PRÉCÉDENTE	NORMAL NORMALE	ABOVE 5°C AU-DESSUS DE 5°C	THIS YEAR ANNÉE EN COURS	PREVIOUS YEAR ANNÉE PRÉCÉDENTE	NORMAL NORMALE
TOTAL FOR MONTH TOTAL DU MOIS	3.5	27.2	27.6	TOTAL FOR MONTH TOTAL DU MOIS	489.8	465.7	441.9
ACCUMULATED SINCE JULY 1 ACCUMULÉE DEPUIS LE 1er JUILLET	3537.1	3291.8	3594.8	ACCUMULATED SINCE APRIL 1 ACCUMULÉE DEPUIS LE 1er AVRIL	826.1	759.6	843.4

DAYS WITH TOTAL PRECIPITATION: JOURS AVEC PRÉCIPITATIONS TOTALES: mm

0.2 OR MORE – OU PLUS	1.0 OR MORE – OU PLUS	2.0 OR MORE – OU PLUS	10.0 OR MORE – OU PLUS	50.0 OR MORE – OU PLUS
10	7	5	3	0

DAYS WITH SNOWFALL: JOURS AVEC CHÛTE DE NEIGE: cm

0.2 OR MORE – OU PLUS	1.0 OR MORE – OU PLUS	2.0 OR MORE – OU PLUS	10.0 OR MORE – OU PLUS	50.0 OR MORE – OU PLUS
0	0	0	0	0

UDC 551.506.1 ( )

Subscription Price: $1.06 monthly; $10.60 per calendar year (January to December)
Prix d'abonnement: mensuel $1.06; annuel $10.60 (janvier à décembre)

Canada

WIND SUMMARY (Kilometres per hr.) Windsor Airport, Ont., Can. **MONTH** JUNE / JUIN 1984
SOMMAIRE DES VENTS (Kilomètres par heure) Aeroport de Windsor **MOIS**

Date	00	01	02	03	04	05	06	07	08	09	10	11	12	13	14	15	16	17	18	19	20	21	22	23	Peak Gust Rafale maximum	Hour Heure
	W	WSW	W	W	W				SSW	SSW	SE	S	S	S	SW	S	SW	S	SSW	S	ESE	ESE	E	NNE		
1	6	7	6	6	4	C	C	C	2	4	4	2	9	11	9	13	11	17	17	9	6	4	4	7		
	NNE	NE	NE	ENE		ENE	ENE	E	ESE	ESE	ESE	ESE	ESE	SE	ESE	ESE	ESE	ESE	ESE	ESE	SE	SE	E	SSW		
2	7	9	4	7	C	7	6	7	4	7	11	15	15	13	17	17	17	17	17	17	7	4	4	9	46W	2
	W	WNW	WNW	NW	NW	NW	W	WNW	WNW	WNW	WNW	WNW	NW	NNW	WNW	NW	NW	WNW	NW	LSE		SSE	S	S		
3	11	17	24	15	20	17	11	17	15	17	17	22	22	20	19	19	17	6	7	7	C	6	7	9	37WNW	1
	SW	WSW	WSW	WSW	WSW			WSW	SW	SW	SSW	SW	SW	S	S	S	SW	SSW	S	SSE	SSE	SSE	SSE	SSE		
4	7	4	6	7	4	C	C	4	7	13	20	13	17	15	4	6	13	13	9	9	9	9	7	9		
	SSE	S	S	SSW	S	S	S	S	S	S	S	S	S	S	S	S	SSW	S	SSW	SW	SSW	SSW	S	SSW		
5	7	7	7	9	9	9	11	13	11	19	19	20	19	15	19	20	20	13	24	19	15	13	13	15		
	SSW	SSW	SSW	SSW	SSW	SSW	SSW	SSW	WSW	S	WSW	SW	WSW	SSW	S	S	S	S	SSE	SSE	SSE	SSE	S	S	SSW	
6	15	11	13	11	13	11	11	11	15	11	17	17	17	22	15	13	6	17	20	17	13	11	9	15	32SSE	19
	SSW	SSW	SSW	SSW	SSW	SSW	SSW	SSW	SSW	S	SSW	S	S	SSW	SSW	SSW	SSW	SSW	SSW	SSW	SSW	SSW	SSW	S		
7	15	11	11	13	11	15	17	15	13	22	19	19	22	19	22	20	19	30	28	26	20	17	22	17	52SSW	18
	SSW	SSW	S	SSW	SSW	SSW	SSW	SSW	SSW	S	SSW	SSW	SSW	SSW	SW	SSW	WSW	SW	SW	SSW	SW	SW	SW	SW		
8	13	17	19	19	17	17	20	24	35	41	35	39	33	30	30	26	30	28	24	26	22	22	22	26	57SSW	12
	SW	WSW	SW	SW	SSW	SSW	SSW	SW	WSW	WSW	W	SSW	WSW	SW	WSW	SW	SW	W	W	WSW	WSW	WSW	WSW	W		
9	24	20	15	11	9	7	9	13	13	15	9	15	11	13	13	15	22	19	27	13	11	9	9	13		
	SW	SSW	SSW	SSW	SSW	SSW	SSW	SSW	SSW	SW	SW	SSW	SSW	SSW	SSW	SW	SW	W	W	WSW	WSW	WSW	WSW	W		
10	19	11	11	11	11	11	13	19	19	22	26	30	32	33	30	26	28	30	24	19	15	11	11	17	44SSW	12
	WNW	W	WNW	WNW	WNW	WNW	NNW	NW	NW	N	N	NE	ENE	ENE	NE	NNE	ENE	E	E	SSE	SSE	SSE	SE	SSE		
11	22	13	15	15	19	22	19	17	19	17	13	9	7	9	7	7	9	7	9	7	11	9	7	2		
	C	C	C	C	SSE	SSE	S	SSE	S	S	S	S	SSE	S	SSW	S	S	S	SSE	SSE	SSE	S	SSW	SSW		
12					4	2	2	7	11	19	17	17	19	22	15	15	17	13	19	13	13	11	7	9		
	SSW	S	SSW	SSW	WSW	WSW	SW	WSW	SW	WSW	SSW	WSW	WSW	SW	WSW	W	SW	SSW	SSW	S	SW	S	SSW	SSW		
13	11	11	11	9	9	9	11	11	15	11	11	17	22	15	11	15	15	17	15	15	7	4	7	15		
	SW	WSW	WSW	WSW	WNW	N	N	NNE	NW	NNW	W	NW	NNW	NW	N	N	ENE	ENE	NE	NE	NE	NNE	NNE	NNE		
14	11	11	9	7	9	13	13	7	9	13	11	17	13	9	11	20	24	26	26	22	22	20	15	17	33 N	16
	NE	ENE	NE	ENE	ENE	ENE	NE	NE	NE	E	ENE	E	ENE	NE	ENE	ESE	SE	N	C	SE	SE	SE	ESE	E		
15	19	15	17	15	15	13	13	11	11	15	19	17	13	19	13	11	7	4		11	13	9	9	7		
	E	E	E	E	ESE	E	ESE	E	ESE	SE	ESE	ESE	S	S	SW	S	S	S	S	S	SSE	SE	C	ESE		
16	6	7	7	6	9	9	7	9	13	7	7	6	6	11	9	7	11	9	11	11	9	6		7		
	E	ESE	ESE	SE	SE	SSE	S	SSW	SW	SW	WSW	W	NE	NE	E	S	WNW	S	SW	SW	SSW	SW	SW	SW		
17	4	4	6	7	4	9	11	17	15	17	19	20	11	9	6	11	6	11	17	11	11	13	15	15		
	SW	SW	SW	SW	SW	WSW	SW	SW	SW	SW	WSW	SW	SW	WSW	WNW	SW	SSW	SSW	W	W	NW	NW	WNW	WNW		
18	15	19	19	20	17	13	9	15	17	15	20	30	24	22	19	22	19	17	24	11	15	13	6	7	54 SW	15
	WNW	WNW	W	NW	C	C	NNW	C	ENE	ENE	E	E	E	C	E	SSE	S	S	SE	NE	NE	NE	NE	NE		
19	9	9	7	6			6		9	11	6	4	4		4	7	11	9	7	19	17	17	22	15		
	NE	NE	NE	NE	NE	NE	NE	NE	NNE	NE	NE	NE	NNE	ENE	NE	ENE	E	E	SE	E	SE	ESE	ENE	NE		
20	15	7	11	9	7	11	9	13	17	13	11	15	15	13	7	9	9	11	15	11	11	7	11	7		
	NNE	NNE	NE	NNE	NNE	NNE	NNE	NNE	ENE	ENE	E	E	ESE	ENE	ENE	ENE	NE	ENE	E	SE	ESE	ESE	ESE	ESE		
21	9	7	7	7	9	6	4	11	11	13	11	7	7	9	9	11	11	9	7	9	9	7	6	7		
	E	E	ESE		NE	NE	NE	ENE	E	E	E	ESE	ESE	ESE	ESE	ESE	SE	ESE	ESE	ESE	ESE	ESE	E	ESE		
22	6	6	7	C	9	7	6	11	15	17	11	17	19	17	11	11	9	11	11	11	11	13	13	15		
	ESE	ESE	E	ESE	E	NNE	NE	E	ESE	SE	SSW	SSW	SSW	S	S	SSE	S	SSE	SSE	SSE	SSE	WNW		SSW		
23	19	11	9	7	9	4	7	6	6	9	13	15	17	13	15	19	17	20	15	17	15	6	C	6	32 SSW	21
	W	W	W	W	WSW	WNW	W	W	W	WNW	WNW	W	WNW	WNW	WNW	WNW	WNW	WNW	WNW	W	NNW	WNW	W	W		
24	9	11	20	9	13	13	19	19	20	20	24	22	26	24	30	24	27	24	17	22	19	26	13	15	46 WNW	21
	W	W	W	W	WSW	W	W	NW	NW	NW	WNW	NNW	NW	WNW	NW	NW	NW	NW	N	NW	NW	NW	WNW	WNW		
25	7	7	9	13	6	7	7	11	13	15	17	30	22	22	17	17	13	19	15	17	13	7	6	6	35 NW	11
	N	NNW		W	WNW			W	SSW	SW	SSW	SSW	SW	SSW	S	SSW	SSW	SSW	S	S	SSE	SSE	SSE	SSW		
26	7	6	C	6	6	C	C	4	6	9	11	11	9	15	17	9	15	17	17	15	17	15	15	17		
	SSW	SSW	SSW	SSW	SSW	SW	SSW	SSW	SW	SW	SW	SW	W	W	W	W	W	W	WNW	W	NNW	W	W	W		
27	20	19	19	19	19	22	22	17	22	22	35	22	33	30	30	33	33	32	28	24	20	15	13	11		
	SW	WSW	WSW	W	W	WSW	WSW	WSW	WSW	WSW	W	WSW	W	WSW	WSW	W	W	WNW	W	NW	N	NNE	NNE	NNE		
28	7	9	9	9	9	7	7	11	11	13	9	13	19	17	17	17	17	9	15	13	15	11	9	11		
	NNE	NNE	NNE	NNE	N	N	N	N	NE	ENE	NE	NE	ENE	ENE	NE	ENE	NE	NE	ENE	NE	NE	NE	NNE	NNE		
29	19	11	11	11	9	9	7	13	15	11	11	15	13	13	20	22	26	24	22	20	22	20	15	15	35 NNE	17
	NNE	N	NNE	N	NE	N	NNE	N	N	N	N	NE	ENE	NE	NE	NE	ENE	ENE	NNE	NE	NE	NE	NE	NNE		
30	19	13	17	13	15	9	6	11	9	15	13	13	15	24	22	20	22	20	22	17	13	13	9	7		
31																										

On indique un vent d'ouest par la lettre 'W'.

*Indicates later occurrences of same speed
*Indique des données postérieures de la même vitesse.

COMPARATIVE RECORDS / RELEVÉS COMPARATIFS — Windsor Airport / Aeroport de Windsor, Onatrio Canada — MONTH / MOIS: June/ Juin — 19 84

Temperature/Température – °Celsius
Precipitation/Précipitation – Millimetres (mm)
Rainfall/Hauteur de pluie – Millimetres (mm)
Snowfall/Hauteur de neige – Centimetres (cm)
Wind speed/Vitesse du vent – Kilometres per hour/par heure (km/h)
Station pressure/Pression à la station – Kilopascals (kPa)

	THIS MONTH / CE MOIS-CI		PREVIOUS YEAR / ANNÉE PRÉCÉDENTE		NORMAL / NORMALE	RECORD FOR THE MONTH / RECORD POUR LE MOIS — HIGHEST MAXIMUM ABSOLU			LOWEST MINIMUM ABSOLU			YEARS OF RECORD / ANNÉES D'OBSERVATIONS
	VALUE / RELEVÉ	DATE	VALUE / RELEVÉ	DATE		VALUE / RELEVÉ	DAY / JOUR	YEAR / ANNÉE	VALUE / RELEVÉ	DAY / JOUR	YEAR / ANNÉE	
HIGHEST TEMPERATURE / TEMPÉRATURE LA PLUS ÉLEVÉE	33.1	13	34.3	26		37.2	26	1952	28.2	28	1982	44
LOWEST TEMPERATURE / TEMPÉRATURE LA PLUS BASSE	10.5	01	6.7	08		10.0	02	1976	2.8	04	1947	44
MEAN MONTHLY TEMPERATURE / TEMPÉRATURE MENSUELLE MOYENNE	21.3		20.5		19.7	22.7		1949	17.0		1969	44
TOTAL MONTHLY RAINFALL / HAUTEUR TOTALE MENSUELLE DE PLUIE	57.8		110.5		89.3	162.1		1960	12.4		1952	44
TOTAL MONTHLY SNOWFALL / HAUTEUR TOTALE MENSUELLE DE NEIGE												
TOTAL MONTHLY PRECIPITATION / PRÉCIPITATION TOTALE MENSUELLE	57.8		110.5		89.3	162.1		1960	12.4		1952	44
NO OF DAYS WITH MEASURABLE PRECIPITATION / NOMBRE DE JOURS AVEC PRÉCIPITATION MESURABLE	10		8									
GREATEST RAINFALL IN ONE DAY / HAUTEUR DE PLUIE MAXIMALE EN UNE JOURNÉE	19.8	18	37.8	27		78.0	25	1968				44
GREATEST SNOWFALL IN ONE DAY / HAUTEUR DE NEIGE MAXIMALE EN UNE JOURNÉE												
GREATEST PRECIPITATION IN ONE DAY / PRÉCIPITATION MAXIMALE EN UNE JOURNÉE	19.8	18	37.8	27		78.0	25	1968				44
MAXIMUM RAINFALL RECORDED IN: / HAUTEUR DE PLUIE MAXIMALE ENREGISTRÉE EN:												
5 MINUTES	4.0	13	5.2	30								
10 MINUTES	8.0	13	7.2	27/30								
15 MINUTES	10.8	02	9.0	27								
30 MINUTES	12.6	02	15.6	27								
60 MINUTES	14.0	02	18.0	27								
24 CONSECUTIVE HOURS / HEURES CONSECUTIVES	14.8	02	89.4	27/28								
MEAN WIND SPEED (km/h) / VITESSE MOYENNE DU VENT (km/h)	13.4		11.1		14.8							44
MAXIMUM SPEED (1 min.) (km/h) / VITESSE MAXIMALE (1 min.) (km/h)	41 S	08	30 ENE	28								44
MAXIMUM GUST SPEED (km/h) / POINTE DU VENT MAXIMALE (km/h)	57 SSW	08	59 WSW	15								44
TOTAL HOURS OF SUNSHINE / TOTAL DES HEURES INSOLATION												
MEAN STATION PRESSURE (kPa) / PRESSION MOYENNE À LA STATION (kPa)	99.21		99.33		99.14							21
GREATEST STATION PRESSURE (kPa) / PRESSION MAXIMALE À LA STATION (kPa)	100.38	15	100.04	11								21
LEAST STATION PRESSURE (kPa) / PRESSION MINIMALE À LA STATION (kPa)	97.94	27	98.19	04								21

CLIMATOLOGICAL DATA FOR THE PAST YEARS / DONNÉES CLIMATOLOGIQUES POUR LES DERNIÈRE ANNÉES

YEAR / ANNÉE	MAXIMUM TEMP. / TEMP. MAXIMALE	MINIMUM TEMP. / TEMP. MINIMALE	MEAN TEMP. / TEMP. MOYENNE	RAINFALL / HAUTEUR DE PLUIE	SNOWFALL / HAUTEUR DE NEIGE	TOTAL PRECIP. / PRÉCIP. TOTALE	MEAN WINDSPEED / VITESSE MOYENNE DES VENTS	MAXIMUM WINDSPEED / VITESSE MAXIMALE DES VENTS	RAFALE / MAX. GUST	HEATING DEGREE-DAYS / DEGRÉS-JOURS DE CHAUFFE	GROWING DEGREE DAYS / DEGRÉS-JOURS DE CROISSANCE		
1975	32.2	8.9	20.5	94.0		94.0	16.3	52 NW	93 NW	18			
1976	32.9	10.0	21.1	99.6		99.6	16.3	52WNW	70 SW	5.9	483		
1977	30.9	6.5	18.4	103.2		103.2	14.4	52WSW	78 WNW	48.4	403		
1978	31.5	7.4	19.7	74.6		74.6	14.7	41 S	78 S	25.2	439		
1979	30.8	7.3	18.9	65.6		65.6	15.4	46SSW	87 WSW	26.2	431		
1980	32.6	5.0	17.9	147.0		147.0	15.6	48NW	67 NNW	49.9	387		
1981	31.7	7.0	20.3	128.6		128.6	14.0	44WNW	76 N	6.8	460		
1982	28.2	8.5	18.1	74.1		74.1	12.7	46SSW	74 WNW	32.1	391.6		
1983	34.3	6.7	20.5	110.5		110.5	11.1	30 ENE	59 WSW	27.2	465.7		
1984	33.1	10.5	21.3	57.8		57.8	13.4	41 S	57 SSW	3.5	489.8		

DRY-BULB TEMPERATURE SUMMARY *Windsor Airport
SOMMAIRE DES TEMPÉRATURES DU THERMOMÈTRE SEC* Aeroport de Windsor, Ontario Canada

MONTH / MOIS JUNE / JUIN 1984

Date	00	01	02	03	04	05	06	07	08	09	10	11	12	13	14	15	16	17	18	19	20	21	22	23
1	14.0	13.6	12.8	13.0	12.8	11.0	11.6	13.2	17.5	18.8	20.2	21.4	22.0	22.5	22.6	22.8	23.4	23.4	22.6	21.7	19.8	17.8	16.0	15.0
2	14.2	13.2	13.6	13.4	13.2	12.6	13.2	14.6	16.7	18.8	20.5	22.2	22.4	22.6	23.0	23.0	23.5	22.1	20.2	19.5	18.2	12.3	14.3	15.0
3	14.4	16.8	17.6	16.9	16.1	15.7	14.6	15.9	17.7	20.0	22.1	22.8	23.5	24.4	24.8	25.2	25.6	25.2	24.8	23.9	21.3	19.8	17.6	16.4
4	15.8	15.3	14.2	14.8	13.6	13.2	13.2	15.7	18.0	20.2	22.4	24.0	24.5	25.1	25.6	26.0	26.0	26.3	25.7	24.1	21.3	9.8	18.2	12.5
5	17.4	17.4	17.5	17.6	17.1	17.2	18.0	18.1	18.4	21.2	22.0	24.0	25.1	26.3	27.5	28.6	28.7	28.0	27.7	26.3	24.0	22.8	22.2	22.1
6	21.6	21.0	20.7	20.2	19.8	19.2	19.8	21.6	23.4	24.0	26.6	26.9	28.5	29.6	26.6	25.2	24.0	26.0	25.7	24.2	23.3	22.8	22.6	23.5
7	23.5	21.8	20.8	20.3	20.6	20.7	20.9	22.3	23.3	24.0	25.7	26.7	27.0	26.8	27.5	28.0	29.9	30.2	28.6	27.6	26.3	25.3	25.9	24.2
8	23.1	23.2	22.6	22.4	22.5	21.8	22.4	22.8	23.6	24.0	25.8	26.8	27.7	27.8	28.8	29.8	29.6	30.1	29.0	28.5	27.3	26.5	26.4	26.5
9	26.0	25.4	24.7	23.8	21.8	21.1	21.8	23.4	25.3	26.3	26.9	27.4	28.1	29.3	29.3	30.3	31.3	31.7	30.9	29.3	28.6	26.0	24.6	24.7
10	24.0	23.2	22.8	22.1	21.8	21.0	22.1	23.0	24.4	26.2	27.9	28.9	30.0	30.0	30.8	30.4	31.5	31.6	30.6	29.7	28.7	27.0	25.6	25.6
11	24.5	22.7	21.3	20.0	19.1	17.6	16.8	17.3	18.0	19.2	20.0	20.7	20.8	21.9	22.2	23.4	24.3	23.3	23.3	22.1	19.8	18.6	17.5	16.7
12	16.2	15.1	15.1	14.4	13.8	14.1	14.9	17.9	20.5	22.7	24.2	25.7	27.0	28.4	29.6	30.5	30.5	30.5	29.1	27.7	26.3	24.4	23.5	23.4
13	23.2	22.7	22.0	22.5	22.9	22.4	22.2	23.5	25.2	26.8	29.3	30.3	31.1	30.3	31.2	32.6	31.8	25.6	20.2	20.2	20.0	20.2	21.0	21.2
14	21.0	20.6	20.3	19.9	19.6	19.2	18.4	19.0	20.0	20.6	22.6	23.4	23.0	22.4	23.1	21.9	18.6	16.5	15.3	15.3	14.7	13.6	13.0	12.6
15	12.0	12.0	12.3	12.7	12.7	12.7	13.0	13.5	14.9	15.8	16.6	17.2	18.2	18.4	18.8	19.7	18.9	19.6	19.1	18.5	16.5	15.0	14.2	13.3
16	13.1	12.2	11.5	11.9	12.6	11.2	12.4	14.4	16.2	18.0	19.9	21.0	21.8	22.8	23.4	23.8	24.2	22.8	21.9	21.2	20.4	19.9	19.0	18.0
17	17.4	17.4	17.4	17.7	18.7	19.1	20.1	21.3	22.8	24.4	26.0	26.8	27.0	23.1	25.8	29.9	25.3	27.2	28.8	28.6	26.9	27.4	27.0	26.8
18	25.6	26.1	26.1	25.7	25.5	24.9	24.6	25.0	26.1	27.2	28.4	30.0	29.8	30.6	30.8	20.7	23.0	24.3	24.0	24.0	25.1	24.6	23.4	22.9
19	22.7	22.0	20.7	20.3	19.4	19.5	20.4	22.3	23.4	23.4	24.8	25.0	25.5	26.2	26.6	26.8	26.4	26.0	26.2	23.6	21.7	20.9	20.1	18.5
20	18.5	17.3	17.1	16.5	16.3	15.7	16.7	17.0	19.3	19.5	21.4	22.9	23.4	24.0	24.6	25.1	25.1	25.0	24.0	23.6	20.6	19.4	17.9	17.4
21	17.0	16.1	15.6	15.7	14.9	14.6	15.8	17.8	19.0	20.2	21.6	22.4	23.4	23.6	24.1	24.8	25.0	24.5	24.2	23.3	21.0	20.2	18.8	18.4
22	18.6	17.4	17.0	16.2	14.9	15.1	17.0	18.7	20.2	22.0	23.4	24.4	25.2	25.8	25.8	25.8	26.7	25.7	25.0	24.1	22.4	21.6	21.4	21.2
23	20.4	19.8	19.1	18.4	16.9	17.2	17.9	19.3	21.3	23.0	23.3	25.3	25.1	26.0	26.3	26.7	26.5	26.2	25.5	25.4	24.3	21.7	21.3	20.9
24	21.7	21.6	21.0	20.2	19.3	19.3	19.6	20.4	21.7	23.2	24.0	24.5	24.8	25.0	24.7	24.7	24.8	25.0	24.0	22.8	20.7	18.6	17.8	17.0
25	16.4	15.5	16.8	15.9	14.9	15.0	15.0	17.2	19.0	20.2	21.1	21.0	21.3	22.1	22.6	23.0	22.8	22.6	23.0	22.4	21.7	19.8	18.9	18.2
26	16.9	16.1	15.1	13.5	13.4	13.4	13.8	15.8	19.1	20.9	22.1	23.6	24.0	24.6	25.1	25.8	25.8	25.0	25.6	22.8	21.3	20.4	20.4	22.2
27	22.8	22.3	21.9	21.6	21.3	21.2	22.0	20.1	20.3	20.1	21.9	23.2	26.2	25.3	24.0	23.5	23.6	23 9	22.3	22.4	21.1	20.2	19.7	18.9
28	17.0	16.6	17.1	18.1	18.4	17.1	17.4	19.0	20.9	23.1	24.2	26.0	26.0	27.3	27.4	27.5	26.9	27.0	26.9	26.0	25.6	24.3	22.3	21.9
29	19.7	18.9	18.4	17.1	16.1	14.5	15.5	17.1	18.6	19.0	20.2	20.6	21.5	22.1	22.2	21.6	21.7	20.0	18.5	17.8	16.9	16.5	16.5	15.6
30	14.9	14.4	14.3	14.0	15.0	14.9	15.4	15.5	15.9	16.8	18.2	20.5	21.9	23.1	22.9	23.2	23.3	23.2	22.7	21.9	20.2	19.3	17.9	17.5
31																								

*Temperatures in tenths of degrees Celsius – Températures en dixième de degrés Celsius

Date	00	01	02	03	04	05	06	07	08	09	10	11	12	13	14	15	16	17	18	19	20	21	22	23
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Environment Canada / Environnement Canada
Atmospheric Environment Service / Service de l'environnement atmosphérique

MONTHLY METEOROLOGICAL SUMMARY
SOMMAIRE MÉTÉOROLOGIQUE MENSUEL

MONTH/MOIS JULY /JUILLET 1984

AT/À WINDSOR AIRPORT/AEROPORT de WINDSOR, ONTARIO CANADA

LAT: 42 ° 16 'N LONG: 82 ° 59 'W ELEVATION: ALTITUDE: 194.5 METRES (ASL) MÉTRES (NMM) STANDARD TIME USED: EASTERN HEURE NORMALE UTILISÉE: EST

DATE	TEMPERATURE TEMPÉRATURE			DEGREE-DAYS DEGRÉS-JOURS		REL. HUMIDITY HUMIDITÉ REL.		THUNDERSTORM ORAGE	PRECIPITATION PRÉCIPITATIONS			SNOW ON GROUND NEIGE AU SOL	WIND VENT			Cooling Degree Days Degrés-jours de refroidissement
	MAXIMUM MAXIMALE °C	MINIMUM MINIMALE °C	MEAN MOYENNE °C	HEATING DE CHAUFFE BASE 18.0°C	COOLING DE CROISSANCE BASE 5.0°C	MAXIMUM MAXIMALE %	MINIMUM MINIMALE %		RAINFALL PLUIE (HAUTEUR) mm	SNOWFALL NEIGE (HAUTEUR) cm	TOTAL PRECIP. PRÉCIP. TOTALE mm	cm	AVERAGE SPEED VITESSE MOYENNE km/h	PREVAILING DIRECTION DIRECTION DOMINANTE	MAXIMUM SPEED AND DIRECTION VITESSE MAXIMALE ET DIRECTION km/h	
1	26.9	15.0	21.0		16.0	88	42						9.7	NE	15 NNE	3.0
2	28.7	16.2	22.5		17.5	94	42						6.8	S	17 WNW	4.5
3	31.7	17.7	24.7		19.7	88	38						11.7	WSW	24 WSW	6.7
4	28.3	18.2	23.3		18.3	100	62	1	11.6		11.6		8.3	SW	17 WSW	5.3
5	25.0	17.7	21.4		16.4	100	69		0.2		0.2		8.5	SSW	22 S	3.4
6	24.9	12.4	18.7		13.7	100	38	1	10.6		10.6		17.5	SVRL	30 W	0.7
7	20.8	9.7	15.3	2.7	10.3	82	43						13.0	WNW	24 NW	
8	24.2	10.9	17.7	0.3	12.7	88	41						7.3	SSE	15 S	
9	22.6	17.3	20.0		15.0	94	69		0.6		0.6		12.2	S	28 S	2.0
10	33.0	19.5	26.3		21.3	100	49		TR		TR		11.6	WSW	26 W	8.3
11	26.7	18.8	22.8		17.8	94	58		2.8		2.8		14.2	WSW	15 N	4.8
12	31.1	16.6	23.9		18.9	88	33						9.6	W	22 WNW	5.9
13	31.2	17.8	24.5		19.5	88	38						12.8	WSW	15 SSW	6.5
14	32.0	19.4	25.7		20.7	94	46						11.4	SSW	22 SW	7.7
15	30.0	20.6	25.3		20.3	89	45		TR		TR		14.5	SSW	26 SW	7.3
16	27.9	17.5	22.7		17.7	78	32						14.2	WNW	26 WNW	4.7
17	25.9	14.7	20.3		15.3	88	56	1	4.1		4.1		13.5	SW	24 SW	2.3
18	21.9	13.7	17.8	0.2	12.8	88	53		TR		TR		12.1	NW	22 NW	
19	26.6	13.2	19.9		14.9	94	41						11.3	WSW	24 SSW	1.9
20	28.6	16.2	22.4		17.4	88	48						14.7	SSW	26 SSW	4.4
21	28.3	17.9	23.1		18.1	100	58						6.4	SW	13 SW	5.1
22	30.5	16.6	23.6		18.6	94	38						6.3	S	15 SSE	5.6
23	33.5	19.3	26.4		21.4	94	38						14.7	SW	28 SW	8.4
24	29.9	17.5	23.7		18.7	78	35						11.3	N	22 WNW	5.7
25	26.9	16.4	21.7		16.7	88	45						6.8	N	13 S	3.7
26	24.8	15.3	20.1		15.1	100	57		7.8		7.8		4.4	E	13 E	2.1
27	24.3	14.2	19.3		14.3	100	47	1	0.4		0.4		11.3	N	24 NNE	1.3
28	25.7	13.2	19.5		14.5	88	36						11.4	NE	19 NE	1.5
29	26.4	13.3	19.9		14.9	94	34						8.1	N	15 ENE	1.9
30	28.1	12.7	20.4		15.4	88	37						4.4	C	15 S	2.4
31	28.6	16.6	22.6		17.6	94	45						9.3	SSW	19 S	4.6
MEAN MOYENNE	27.6	16.0	21.8	TOTAL 3.2	TOTAL 521.5			TOTAL 4	TOTAL 38.1	TOTAL	TOTAL 38.1		10.6	PREVAILING WSW DOMINANTE	MAXIMUM 30 W	TOTA 124.
NORMAL NORMALE	27.7	16.7	22.2	2.6	533.6			6.4	83.4		83.4		12.9	SW		133.

DEGREE-DAY SUMMARY – SOMMAIRE DE DEGRÉS-JOURS

BELOW 18°C AU-DESSOUS DE 18°C	THIS YEAR ANNÉE EN COURS	PREVIOUS YEAR ANNÉE PRÉCÉDENTE	NORMAL NORMALE	ABOVE 5°C AU-DESSUS DE 5°C	THIS YEAR ANNÉE EN COURS	PREVIOUS YEAR ANNÉE PRÉCÉDENTE	NORMAL NORMALE
TOTAL FOR MONTH TOTAL DU MOIS	3.2	3.3	2.6	TOTAL FOR MONTH TOTAL DU MOIS	521.5	585.0	533.6
ACCUMULATED SINCE JULY 1 ACCUMULÉE DEPUIS LE 1er JUILLET	3.2	3.3	2.6	ACCUMULATED SINCE APRIL 1 ACCUMULÉE DEPUIS LE 1er AVRIL	1347.6	1344.6	1381

DAYS WITH TOTAL PRECIPITATION: JOURS AVEC PRÉCIPITATIONS TOTALES: mm

0.2 OR MORE – OU PLUS	1.0 OR MORE – OU PLUS	2.0 OR MORE – OU PLUS	10.0 OR MORE – OU PLUS	50.0 OR MORE – OU PLUS
8	5	5	2	0

DAYS WITH SNOWFALL: JOURS AVEC CHÛTE DE NEIGE: cm

0.2 OR MORE – OU PLUS	1.0 OR MORE – OU PLUS	2.0 OR MORE – OU PLUS	10.0 OR MORE – OU PLUS	50 OR MORE – OU PLUS
0	0	0	0	0

UDC 551.506.1 ( )

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Prix d'abonnement: mensuel $1.06; annuel $10.60 (janvier à décembre)

Canad

WIND SUMMARY (Kilometres per hour) WINDSOR AIRPORT MONTH JULY 19 84
SOMMAIRE DES VENTS (Kilomètres par heure) AEROPORT de WINDSOR MOIS JUILLET

Date	00	01	02	03	04	05	06	07	08	09	10	11	12	13	14	15	16	17	18	19	20	21	22	23	Peak Gust Rafale maximum	Hour Heure
1	NNE	NNE	NE	NNE	N	N	NNE	NE	NE	NE	NE	NE	ENE	E	ENE	E	E	ENE	ENE	E	S					
	11	15	13	11	9	7	6	15	11	13	13	13	9	15	11	11	17	11	11	7	7	C	C	C		
2									W	WSW	WSW	SW	SSW	SSW	WNW	SSW	S	S	S	S	S	S	S	S		
	C	C	C	C	C	C	C	C	4	7	11	15		17	11	15	9	11	13	13	9	9	11	7		
3	S	S	S	WSW	WSW	WSW	WSW	SSW	SSW	SW	S	WSW	S	SSW	SW	WSW	SW	WSW	SW	SW	SSW	S	S	WSW		
	9	9	9	9	9	9	9	7	9	4	11	13	20	24	22	20	22	20	13	13	5	5	7	9		
4	WSW	SW	WSW	WSW	W	SW	SW	SSW	SW	SW	SSW	SSW	SW	WSW	SW	S	S	S	NE	S		SSE		SE		
	9	9	11	17	11	9	6	7	9	4	9	9	11	11	7	11	13	13	9	5	C	4	C	6		
5	S	SSW	SSW	W	WSW	W	W	WNW	WSW			S	S	S	S	S	WSW	SSW	SSW	SSW	SSW	S	SSW	SSW		
	2	4	2	4	2	6	6	6	4	C	C	7	11	13	22	20	11	7	19	13	9	17	9	11		
6	S	SSW	S	S	SSW	S	WSW	W	NW	SW	WSW	WSW	WSW	W	WNW	W	W	WNW	WNW	NW	NW	NNW	NW	WNW		
	9	7	11	13	11	15	19	11	6	7	13	19	22	19	15	30	30	28	26	24	24	22	26	13	41 WNW	
7	WNW	W	WNW	W	W	W	WSW	WNW	WNW	NW	NW	WNW	NW	WNW	WNW	NW	NW	WNW	WNW	WNW	WNW	NW	NNW	SSE		
	11	7	11	7	7	7	7	15	22	22	24	19	24	20	19	11	17	20	13	9	9	6	4	2	37 NW	09
8	SSW	SSW	WSW	W	WNW	W	W	W			SSE	SSW	WNW	WSW	S	SSW	S	SSW	S	SSE	SSE	SSE	SSE	SSE		
	4	4	6	6	9	4	4	2	C	C	4	9	7	9	15	9	9	11	13	9	9	9	1	11		
9	S	SSE	SSE	S	S	S	S	S	S	S	S	S	SSW	S	S	S	S	S	S	S	S	S	S	S		
	9	9	6	6	6	7	15	9	11	13	13	9	13	17	28	24	17	9	15	9	15	9	11	13	33 S	15
10	S	SSW	W		SSW	SW	W		SW	W	WNW	W	WSW	W	WSW	SW	WSW	WSW	WSW	WSW	SSW	SSW	SSW	S		
	13	13	6	C	6	11	6	C	9	15	19	7	17	26	11	19	17	19	15	11	9	6	9	15		
11	SW	SW	WNW	WSW	WSW	WSW	WSW	WSW	WSW	W	W	W	WSW	N	NNW	N	N	N	NNW	WSW	W	W	W	W	39 WNW	02
	20	17	11	9	17	11	19	13	19	22	13	13	17	20	22	28	11	15	17	15	7	7	9	9		
12	WNW	WNW	W	W	W	W	W	W	W	W	SW	SW	SW	WSW	WNW	WNW	WNW	NW	NW	WNW	NNW		E			
	7	11	9	7	7	9	6	9	9	13	22	17	13	15	11	22	13	9	11	11	11	C	4	C		
13	S		W	WNW	NNW					SW	SSW	W	WNW	SSW	SSW	SW	WSW	SW	SW	SSW	SSW	SSW	SSW	SSW		
	4	C	4	7	4	C	C	C	C	4		7	7	6	15	7	13	11	13	11	7	9	7	9		
14	S	SSW	SSW	WSW		SW	WSW	WSW	SW	SW	SW	SW	SW	SSW	SSW	S	SSW	SSW	SSW	SSW	SSW	S	S	SSW		
	7	9	7	7	C	7	4	7	9	11	9	17	17	20	15	22	20	15	17	11	9	7	9	11		
15	SSW	SSW	SSW	SSW	SSW	SSW	SSW	SSW	SSW	SSW	SSW	SSW	SW	SSW	SW	WSW	SW	SW	W	W	WNW	WNW	WNW	WSW	32 SW	14
	11	9	9	7	7	7	6	9	17	13	17	20	20	20	26	19	22	17	19	17	22	20	11	7		
16	WSW	WSW	W	W	WNW	WNW	NW	WNW	WNW	W	WNW	WNW	WNW	WNW	WNW	WNW	W	NW	WNW	WNW	WNW	W	W	W	37 W	
	7	9	9	11	11	11	15	9	20	19	24	26	22	19	19	22	17	7	11	13	13	11	9	7		
17	W	WSW	WSW	SW	WSW	SW	SW	SSW	SW	SSW	SSW	WSW	SW	SW	SW	SW	SW	SSW	WNW	WSW	WSW	WNW	WNW	W	43 NW	18
	4	11	7	9	11	7	7	11	15	17	15	20	22	15	19	22	24	20	7	17	15	11	11	7		
18	W	SW	W	WSW	WSW	W	WNW	NW	NW	NW	N	NNW	NW	NW	NNW	NW	NNW	N	NNW	NNE	N		S	S		
	6	4	7	7	9	9	17	22	22	19	19	13	19	22	11	19	20	17	7	4	4	C	4	4		
19	S		SW	WSW	W	WSW	WSW	WSW	W	W	W	WNW	WSW	SSW	WSW	WSW	SSW	SSW	S	S	S	S	SSW	SSW		
	7	C	9	7	7	6	6	6	9	9	11	7	13	19	17	17	24	17	22	11	9	9	11	9		
20	SSW	SW	SSW	SSW	SW	SW	SW	SSW	SW	SSW	SW	WSW	SW	SSW	SSW	SSW	SSW	SSW	SSW	SSW	SW	SW	SSW	SW		
	7	9	9	9	9	6	11	11	6	7	17	20	15	20	22	22	24	26	24	22	15	11	11	11	35 SW	
21	SW	WSW	WSW	SW	SW	SW	SW	WSW	W		ESE	S	S	SSW	SW	W		S	E	SE	SSE	NNE	NNE	NNE		
	13	9	9	7	7	7	7	7	6	C	2	6	6	4	7	2	C	4	13	9	6	7	9	7		
22	NNE	ENE			E			SE	SSW	SW	S	S	S	S	S	S	SSE	S	SSE	SSE	SSE	SSE	SSE	S		
	4	4	C	C	2	C	C	2	2	7	4	4	6	9	9	13	15	9	11	11	9	11	11	9		
23	SSW	SW	SSW	SSW	SW	SW	SW	SSW	SW	SW	SW	SW	SW	SW	SW	SW	SSW	SSW	SSW	SW	WSW	WNW	WNW	SSW		
	6	4	7	7	7	7	9	7	19	9	26	28	20	17	22	22	22	20	17	15	17	26	15	3	41 WNW	
24	WSW	WNW	NW	NNW	NNW	N	NNW	NNW	N	N	NNE	NNE	ENE	NNE	NE	NE	NNW	N	N	N	E	E	ENE	ENE		
	9	22	13	19	13	11	3	9	7	7	7	7	5	11	11	11	22	17	15	15	9	3	17	9		
25	ENE	ENE	NE	E	N	N	N	N	N	NNW	NW	SW	ENE	SSE	N	SW	E	SSW	S	S	SSE	S	S		
	9	11	9	6	6	7	7	4	6	4	4	4	7	4	4	2	9	9	13	11	7	9	11	C		
26	SE	S	SSW	SSW	SW					S	SE				E	E	SE	E	E	E	ENE	E	E	E		
	4	9	4	4	2	C	C	C	C	4	4	C	C	C	6	7	6	6	7	9	6	9	13	6		
27			N	N	N	N	NNW	N	N	NNE	N	N	ENE	NNE	NNE	NE	NNE	NE	NE	ENE	NE	N	N	N		
	C	C	9	9	9	7	7	7	15	9	13	7	9	24	15	17	15	17	19	19	17	11	13	13		
28	N	N	N	N	N	N	N	N	NNE	NNE	NE	NNE	NE	E	ENE	NE	NE	ENE	ENE	NE	NE	ENE	ENE	NE		
	9	9	9	9	9	6	7	9	15	15	17	13	13	9	9	15	11	15	13	19	15	13	7	7		
29	N	N	N		N	N	N	N	NNE	NE	NNE	ENE	ENE	ENE	NNE	ENE	ENE	E	E	S	S					
	6	7	9	C	6	9	7	7	13	13	13	13	13	15	13	11	13	7	7	7	6	C	C	C		
30							N	N	ENE	E	N	NNW	NNW	E	SSW	SE	ENE	S	SSE	SSE	S	S	S	SSW		
	C	C	C	C	C	C	4	2	2	4	4	2	4	4	9	4	9	15	9	9	6	7	7	4		
31	SSW	S	SSW	S	SSW		S	S	SSW	SSW	SW	SW	SW	SW	SSW	S	SW	SSW	SW	SSW	SSW	S	S	SSW		
	4	7	7	7	4	C	2	4	7	9	11	13	13	13	15	19	15	15	15	9	9	9	9	7		

On indique un vent d'ouest par la lettre 'W'.

*Indicates later occurrences of same speed
*Indique des données postérieures de la même vitesse

COMPARATIVE RECORDS WINDSOR AIRPORT — MONTH JULY — 1984
RELEVÉS COMPARATIFS AÉROPORT de WINDSOR, ON , CANADA — MOIS JUILLET

Temperature Température	– °Celsius
Precipitation Précipitation	– Millimetres (mm)
Rainfall Hauteur de pluie	– Millimetres (mm)
Snowfall Hauteur de neige	– Centimetres (cm)
Wind speed Vitesse du vent	– Kilometres per hour (km/h) / par heure
Station pressure Pression à la station	– Kilopascals (kPa)

	THIS MONTH CE MOIS-CI		PREVIOUS YEAR ANNÉE PRÉCÉDENTE		NORMAL NORMALE	RECORD FOR THE MONTH RECORD POUR LE MOIS — HIGHEST MAXIMUM ABSOLU			LOWEST MINIMUM ABSOLU			YEARS OF RECORD ANNÉES D'OBSERVATIONS
	VALUE RELEVÉ	DATE	VALUE RELEVÉ	DATE		VALUE RELEVÉ	DAY JOUR	YEAR ANNÉE	VALUE RELEVÉ	DAY JOUR	YEAR ANNÉE	
HIGHEST TEMPERATURE TEMPÉRATURE LA PLUS ÉLEVÉE	33.5	23	33.9	16		38.3	27	1941	30.4	15	1979	44
LOWEST TEMPERATURE TEMPÉRATURE LA PLUS BASSE	9.7	07	10.6	06		13.3	25	1955	5.6	11	1945	44
MEAN MONTHLY TEMPERATURE TEMPÉRATURE MENSUELLE MOYENNE	21.8		23.7		22.2	25.3		1955	20.4		1964	44
TOTAL MONTHLY RAINFALL HAUTEUR TOTALE MENSUELLE DE PLUIE	38.1		194.1		83.4	243.6		1969	25.7		1944	44
TOTAL MONTHLY SNOWFALL HAUTEUR TOTALE MENSUELLE DE NEIGE												
TOTAL MONTHLY PRECIPITATION PRÉCIPITATION TOTALE MENSUELLE	38.1		194.1		83.4	243.6		1969	25.7		1944	44
NO OF DAYS WITH MEASURABLE PRECIPITATION NOMBRE DE JOURS AVEC PRÉCIPITATION MESURABLE	8		11		10							
GREATEST RAINFALL IN ONE DAY HAUTEUR DE PLUIE MAXIMALE EN UNE JOURNÉE	11.6	04	82.0	29		82.0	29	1983				44
GREATEST SNOWFALL IN ONE DAY HAUTEUR DE NEIGE MAXIMALE EN UNE JOURNÉE												
GREATEST PRECIPITATION IN ONE DAY PRÉCIPITATION MAXIMALE EN UNE JOURNÉE	11.6	04	82.0	29		82.0	29	1983				44
MAXIMUM RAINFALL RECORDED IN: HAUTEUR DE PLUIE MAXIMALE ENREGISTRÉE EN:												
5 MINUTES	3.6	06	15.6	03								
10 MINUTES	5.0	06	17.2	03								
15 MINUTES	5.8	06	23.0	03								
30 MINUTES	6.4	06	34.4	29								
60 MINUTES	10.6	04	41.2	29								
24 CONSECUTIVE HOURS HEURES CONSECUTIVES	12.0	04	93.0	28/29								
MEAN WIND SPEED (km/h) VITESSE MOYENNE DU VENT (km/h)	10.6		10.8		12.9							
MAXIMUM SPEED (1 min.) (km/h) VITESSE MAXIMALE (1 min.) (km/h)	30 W	06	37 SW			71 W	20	1971				44
MAXIMUM GUST SPEED (km/h) POINTE DU VENT MAXIMALE (km/h)	43 NW	17	83 NE	18		124 NW	09	1963				44
TOTAL HOURS OF SUNSHINE TOTAL DES HEURES INSOLATION												
MEAN STATION PRESSURE (kPa) PRESSION MOYENNE À LA STATION (kPa)	99.30		99.37			99.41		1977				21
GREATEST STATION PRESSURE (kPa) PRESSION MAXIMALE À LA STATION (kPa)	100.34	29	100.53	07		100.53	07	1983				21
LEAST STATION PRESSURE (kPa) PRESSION MINIMALE À LA STATION (kPa)	98.33	17	98.59	04					97.78	27	1969	21

CLIMATOLOGICAL DATA FOR THE PAST YEARS
DONNÉES CLIMATOLOGIQUES POUR LES DERNIÈRE ANNÉES

YEAR ANNÉE	MAXIMUM TEMP TEMP MAXIMALE	MINIMUM TEMP TEMP MINIMALE	MEAN TEMP TEMP MOYENNE	RAINFALL HAUTEUR DE PLUIE	SNOWFALL HAUTEUR DE NEIGE	TOTAL PRECIP PRÉCIP TOTALE	MEAN WINDSPEED VITESSE MOYENNE DES VENTS	MAXIMUM WINDSPEED VITESSE MAXIMALE DES VENTS	Max Rafale Gust.	HEATING DEGREE DAYS DEGRÉS-JOURS DE CHAUFFE	GROWING DEGREE DAYS DEGRÉS-JOURS DE CROISSANCE		
1975	34.3	11.1	22.8	71.9		71.9	14.6	40SW	61NW	0.4	533		
1976	34.9	13.4	22.2	64.3		64.8	16.2	35NW	63NW	0.0	534		
1977	35.7	12.8	23.6	89.0		89.0	15.1	50W	83W	0.1	575		
1978	34.0	8.9	21.4	52.5		52.5	14.3	33W	91W	6.6	510		
1979	30.4	10.4	21.5	96.0		96.0	13.2	32NE	46SSW	2.7	514		
1980	34.0	12.8	22.8	76.5		76.5	9.9	30SSW	107W	0.0	549.9		
1981	34.2	11.9	22.7	158.2		158.2	9.8	28NNE	69NW	0.3	546.8		
1982	33.4	12.8	22.6	77.6		77.6	10.9	37SW	52SW	0.1	545.1		
1983	33.9	10.6	23.7	194.1		194.1	10.8	37SW	83NE	3.3	585.0		
1984	33.5	9.7	21.8	38.1		38.1	10.6	30W	43NW	3.2	521.5		

DRY-BULB TEMPERATURE SUMMARY* WINDSOR AIRPORT /AEROPORT de — MONTH JULY — 1984
SOMMAIRE DES TEMPÉRATURES DU THERMOMÈTRE SEC* WINDSOR, ONT. — MOIS JUILLET

Date	00	01	02	03	04	05	06	07	08	09	10	11	12	13	14	15	16	17	18	19	20	21	22	23
1	17.7	17.5	16.7	16.4	16.1	15.5	16.0	19.3	20.5	22.6	23.2	24.8	25.5	25.4	25.7	26.9	26.2	25.5	25.9	25.5	22.4	21.2	20.1	2
2	18.5	18.5	16.6	17.2	17.7	16.4	19.0	20.9	20.7	24.6	25.5	26.9	27.3	27.8	25.7	24.1	24.7	26.3	26.3	25.2	23.1	21.6	21.0	20.5
3	20.1	19.5	19.5	19.3	18.9	18.3	19.1	19.9	21.6	22.7	26.4	27.6	28.9	30.3	30.6	31.6	31.2	30.7	29.6	28.8	26.8	25.3	25.0	24.2
4	23.4	22.3	22.0	21.6	20.9	20.9	20.9	21.3	22.0	23.3	23.3	24.3	25.3	26.2	27.3	27.4	27.3	26.7	19.8	19.7	18.8	18.4	18.7	18.6
5	18.3	18.3	18.1	18.7	18.9	19.7	19.8	20.1	20.6	21.4	22.2	21.8	22.0	22.8	24.3	24.0	22.0	21.5	22.1	21.7	20.5	19.3	19.1	1
6	18.8	19.5	19.5	19.4	19.6	20.0	20.5	18.3	18.0	17.6	19.2	20.9	22.3	17.7	21.8	23.8	24.9	24.2	22.9	21.1	20.0	18.4	16.1	14.6
7	13.6	12.6	12.0	11.4	10.8	10.2	10.4	12.7	14.3	15.5	16.5	18.1	18.2	18.5	18.4	20.1	19.5	20.7	19.9	19.2	18.6	17.1	16.8	13.3
8	12.5	12.5	12.3	12.3	12.4	12.1	12.2	14.8	18.2	19.7	20.4	21.0	21.9	22.9	23.1	23.6	23.6	23.2	22.2	20.5	19.2	18.4	18.1	1
9	18.9	19.1	18.4	18.1	17.8	18.0	19.0	19.6	20.4	21.0	21.3	19.6	18.4	18.2	18.8	20.7	21.0	21.4	22.0	21.8	21.0	21.2	21.0	2
10	21.0	20.9	20.8	20.1	19.9	21.4	22.2	22.2	24.7	27.0	27.8	29.4	31.0	31.5	31.8	32.4	32.2	31.5	31.6	30.3	28.5	26.4	25.5	25.1
11	25.7	26.3	25.1	24.4	22.4	21.8	21.9	22.1	23.5	24.1	23.5	23.2	23.2	21.0	19.4	21.4	23.5	25.2	25.5	25.1	24.0	22.1	21.6	20.0
12	19.7	19.3	18.6	17.9	17.4	17.1	17.2	19.1	21.8	24.2	26.1	27.4	28.6	28.0	29.4	30.6	30.6	31.1	29.9	28.8	28.8	23.8	22.2	2
13	20.3	20.3	19.7	19.8	19.6	18.6	19.5	22.2	25.2	26.9	28.0	28.9	29.7	29.7	30.0	30.6	30.8	30.3	29.9	27.7	24.9	23.5	22.0	2
14	21.4	21.0	20.7	21.1	21.3	19.4	20.5	22.5	24.8	26.9	28.6	30.4	30.9	30.9	31.5	31.3	31.7	31.6	30.5	29.7	27.0	25.4	24.4	24.4
15	24.1	23.8	23.2	23.0	22.3	22.0	22.2	23.1	25.4	25.3	26.-	26.7	26.9	26.2	27.5	28.5	28.6	29.0	30.0	29.2	27.5	25.4	24.6	23.2
16	22.5	21.1	21.1	20.5	20.1	19.3	20.0	20.6	21.6	22.4	23.4	23.2	25.2	25.8	27.0	27.1	27.5	27.3	26.6	25.5	24.4	22.9	22.0	2
17	19.6	17.9	17.0	16.2	17.0	16.6	17.2	18.8	20.6	21.8	21.2	22.2	21.7	22.2	22.9	24.8	25.0	24.5	18.7	19.5	19.6	19.0	18.4	17
18	16.5	14.7	15.1	14.3	14.1	14.4	15.3	16.0	16.9	18.1	18.5	19.9	19.5	18.8	19.4	20.7	21.7	20.7	20.7	21.4	20.1	17.7	15.6	14.8
19	14.8	13.9	14.1	14.3	14.3	13.5	13.9	15.4	18.4	21.9	22.5	23.9	25.3	25.9	25.8	26.3	26.0	25.6	25.0	24.2	21.8	20.6	19.2	18.9
20	18.1	17.8	17.5	17.5	17.5	16.6	17.4	18.4	21.4	23.4	25.6	26.6	27.8	27.7	27.7	28.5	27.1	26.2	24.9	23.3	22.2	21.0	21.0	7
21	20.6	20.4	19.8	18.6	18.2	18.7	19.3	19.7	20.6	22.1	22.8	24.2	25.0	25.3	26.4	27.4	28.1	27.8	27.0	25.4	23.5	22.0	21.4	20.2
22	19.8	20.0	18.8	18.6	16.7	17.4	18.5	19.5	22.9	24.4	26.0	27.7	28.8	30.3	30.0	30.2	30.1	30.0	28.8	26.7	24.1	21.7	21.4	21.2
23	20.7	20.6	20.3	20.1	20.0	19.7	20.0	20.8	23.6	26.4	28.4	30.0	31.6	32.0	32.2	32.6	33.0	32.8	31.5	31.1	30.9	29.0	26.9	2
24	25.6	26.5	24.7	23.8	23.4	21.6	21.5	22.6	23.1	24.0	24.6	26.8	27.8	28.1	28.3	29.9	27.4	27.5	26.8	26.0	22.7	21.2	20.2	1
25	18.4	19.2	17.7	16.5	17.9	17.0	17.4	18.0	19.0	20.9	22.9	24.6	23.7	23.6	25.3	25.9	26.3	25.3	24.3	23.7	21.2	19.8	19.5	1
26	17.7	17.2	17.6	17.3	17.3	16.2	16.1	18.4	21.4	22.0	22.4	23.4	24.8	23.2	21.9	21.3	20.2	18.2	16.8	16.0	15.8	16.0	15.4	16.4
27	16.6	16.0	15.9	15.1	14.8	14.8	15.2	16.6	18.3	20.5	20.1	21.5	22.1	22.0	20.8	22.4	23.4	24.3	23.1	21.7	19.7	18.1	17.6	1
28	15.9	15.6	14.6	14.1	14.2	13.7	13.9	16.5	18.9	20.9	22.2	23.3	23.8	24.2	24.1	25.3	25.2	24.8	24.4	23.5	20.6	18.7	17.0	1
29	17.1	16.2	15.2	14.8	14.5	14.0	14.1	17.1	19.8	21.5	23.0	23.9	25.2	24.7	25.0	25.6	26.3	25.6	25.2	24.0	21.1	20.5	19.4	18.2
30	17.1	16.9	16.5	14.8	15.0	14.2	15.2	18.8	22.2	23.2	24.3	24.5	26.1	26.6	26.2	26.8	27.0	26.4	26.0	24.2	21.3	19.7	18.9	18.5
31	17.7	17.3	17.9	17.8	17.8	17.8	17.4	18.8	21.8	23.6	25.3	26.6	27.2	28.0	27.8	28.2	28.4	27.8	27.1	25.9	24.2	22.3	22.2	2

*Temperatures in tenths of degrees Celsius – Températures en dixième de degrés Celsius

Date	00	01	02	03	04	05	06	07	08	09	10	11	12	13	14	15	16	17	18	19	20	21	22	23
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Environment Canada / Environnement Canada
Atmospheric Environment Service / Service de l'environnement atmosphérique

MONTHLY METEOROLOGICAL SUMMARY
SOMMAIRE MÉTÉOROLOGIQUE MENSUEL

MONTH/MOIS JUNE 19 84

AT/À SARNIA (A) ONTARIO

LAT: 43 ° 00 'N LONG: 82 ° 19 'W ELEVATION: ALTITUDE: 181 METRES (ASL) MÈTRES (NMM) STANDARD TIME USED: HEURE NORMALE UTILISÉE: EASTERN

DATE	TEMPERATURE TEMPÉRATURE			DEGREE-DAYS DEGRÉS-JOURS		REL. HUMIDITY HUMIDITÉ REL.		THUNDERSTORM ORAGE	PRECIPITATION PRÉCIPITATIONS			SNOW ON GROUND NEIGE AU SOL	WIND VENT			BRIGHT SUNSHINE INSOLATION
	MAXIMUM MAXIMALE °C	MINIMUM MINIMALE °C	MEAN MOYENNE °C	HEATING DE CHAUFFE BASE 18.0°C	GROWING DE CROISSANCE BASE 5.0°C	MAXIMUM MAXIMALE %	MINIMUM MINIMALE %		RAINFALL PLUIE (HAUTEUR) mm	SNOWFALL NEIGE (HAUTEUR) cm	TOTAL PRECIP. PRÉCIP. TOTALE mm	cm	AVERAGE SPEED VITESSE MOYENNE km/h	PREVAILING DIRECTION DIRECTION DOMINANTE	MAXIMUM SPEED AND DIRECTION VITESSE MAXIMALE ET DIRECTION km/h	HOUR HEUR
1	19.1	10.0	14.6	3.4	9.6	83	64		0.3		0.3		10.2	NE	NE 19	9.
2	24.2	8.6	16.4	1.6	11.4	93	34	1	1.0		1.0		10.5	S/SE	S/SE 19	9.
3	25.0	13.2	19.1		14.1	89	44						14.3	NW	NW 26	13.
4	29.0	13.2	21.1		16.1	50	23						11.7	SW	W/SW 19	14.
5	26.8	15.1	21.0		16.0	92	56	1	6.0		6.0		16.6	S	S 26	8.
6	30.4	18.6	24.5		19.5	91	54	1	2.4		2.4		14.5	S	W 22	10.
7	30.1	19.4	24.8		19.8	86	52						19.1	S	S/SW 32	10.
8	30.1	21.2	25.7		20.7	80	59		TR		TR		25.0	SW	SW 46	3.
9	29.9	14.1	22.0		17.0	80	49	1	1.8		1.8		13.0	SW	NW 35	8.
10	31.0	14.1	22.6		17.6	81	48						19.9	SW	W/SW 37	13.
11	23.2	13.4	18.3		13,3	77	70									
12	30.0	11.8	20.9		15.9	92	35						16.4	NE	W 28	13.
13	30.1	16.4	23.3		18.3	83	70						16.4	S	SW 32	13.
14	22.1	10.8	16.5	1.5	11.5	88	75						9.6	N	SW 19	9.
15	18.5	10.2	14.4	3.6	9.4	85	44						21.1	N	N 32	4.
													12.6	NE	N 22	12.
16	25.2	8.2	16.7	1.3	11.7	92	40		0.4		0.4		10.6	S	SE 17	12.
17	23.2	15.0	19.1		14.1	100	94	1	88.5		88.5		15.6	S	W 43	0.
18	29.1	17.5	23.3		18.3	97	62		5.4		5.4		11.5	W	W 24	9.
19	23.4	15.1	19.3		14.3	98	57						11.1	NE	SE 20	13.
20	20.4	13.8	17.1	0.9	12.1	94	66						10.6	N	NE 20	12.
21	20.9	11.4	16.2	1.8	11.2	98	60									
22	26.0	11.8	18.9		13.9	98	37						9.7	N,NE	N,NE 20	14.
23	26.6	16.5	21.6		16.6	71	64	1	21.8		21.8		10.8	E	SE 20	11.
24	24.2	16.4	20.3		15.3	91	53						15.6	SE	SE 26	14.
25	21.0	12.6	16.8	1.2	11.8	81	47						19.0	W	W 30	10.
													12.8	NE	NW 26	12.
26	25.8	9.6	17.7	0.3	12.7	93	36		0.2		0.2		10.3	S	SW 24	13.
27	24.7	17.4	21.1		16.1	89	45	1	0.6		0.6		23.9	W	S 41	6.
28	25.7	14.5	20.1		15.1	88	38						13.0	W	W 22	13.
29	17.5	13.2	15.4	2.6	10.4	90	72						15.1	N	N,NE 20	3.
30	19.0	14.9	17.0	1.0	12.0	90	82						17.8	N	N 24	12.
31																
MEAN MOYENNE	25.1	13.9	19.5	TOTAL 19.2	TOTAL 435.8			TOTAL 7	TOTAL 128.4	TOTAL	TOTAL 128.4		14.6	PREVAILING DOMINANTE S	MAXIMUM SW 46	TOTAL 316.6
NORMAL NORMALE	23.5	12.8	18.1	54.3	390.9				81.1		81.1		14.1	N		271.8

DEGREE-DAY SUMMARY – SOMMAIRE DE DEGRÉS-JOURS

BELOW 18°C AU-DESSOUS DE 18°C	THIS YEAR ANNÉE EN COURS	PREVIOUS YEAR ANNÉE PRÉCÉDENTE	NORMAL NORMALE	ABOVE 5°C AU-DESSUS DE 5°C	THIS YEAR ANNÉE EN COURS	PREVIOUS YEAR ANNÉE PRÉCÉDENTE	NORMAL NORMALE
TOTAL FOR MONTH TOTAL DU MOIS	19.2	50.5	54.3	TOTAL FOR MONTH TOTAL DU MOIS	435.8	399.3	390.9
ACCUMULATED SINCE JULY 1 ACCUMULÉE DEPUIS LE 1er JUILLET	4039.6	2943.6	3886.2	ACCUMULATED SINCE APRIL 1 ACCUMULÉE DEPUIS LE 1er AVRIL	706.2	621.4	706.8

DAYS WITH TOTAL PRECIPITATION: JOURS AVEC PRÉCIPITATIONS TOTALES: mm

0.2 OR MORE – OU PLUS	1.0 OR MORE – OU PLUS	2.0 OR MORE – OU PLUS	10.0 OR MORE – OU PLUS	50.0 OR MORE – OU PLUS
11	7	5	2	0

DAYS WITH SNOWFALL: JOURS AVEC CHÛTE DE NEIGE: cm

0.2 OR MORE – OU PLUS	1.0 OR MORE – OU PLUS	2.0 OR MORE – OU PLUS	10.0 OR MORE – OU PLUS	50. OR MOR – OU PLU
0	0	0	0	0

UDC 551.506.1 ( )

*REL. HUMIDITY DATA IS INCOMPLETE

Subscription Price: $ 1.10 monthly; $ 11.15 per calendar year (January to December)
Prix d'abonnement: mensuel $1.10; annuel $ 11.15 (janvier à décembre)

Canada

WIND SUMMARY (Kilometres per hour)
SOMMAIRE DES VENTS (Kilomètres par heure)

MONTH JUNE **MOIS** 19

Date	00	01	02	03	04	05	06	07	08	09	10	11	12	13	14	15	16	17	18	19	20	21	22	23	Peak Gust Rafale maximu	H He
1	W	W	NW	NW	N	NW	SW	SE	C	C	NE	C	NE	NE	NE	NE	NE	NE	NE	NE	NE	N	NW	NW		
	13	15	17	11	6	7	6	4	0	0	4	0	11	15	19	17	17	15	15	15	13	13	7	4		
2	N	N	NE	W	C	C	C	C	SE	SE	SE	SE	SE	SE	SE	S	S	S	S	S	S	S	SW	SW		
	4	4	4	4	0	0	0	0	7	11	15	11	11	19	17	15	17	19	17	17	19	19	17	6		
3	C	C	NW	NW	NW	NW	NW	NW	NW	NW	NW	NW	NW	N	NE	N	N	NW	W	SW	SW	SW	SW	SW		
	0	0	20	24	19	19	17	26	22	19	20	19	19	17	15	13	7	11	7	7	9	9	9	15		
4	W	SW	W	W	W	SW	SW	SW	W	SW	SW	SW	W	SW	SW	SW	S	SW	S	SW	S	S	S	S		
	15	13	19	11	11	7	7	7	11	15	19	15	11	13	13	15	15	15	9	11	6	7	9	7		
5	S	S	S	S	S	S	S	S	W	S	SE	S	S	SW	S	S	S	S	S	S	S	S	S	S		
	7	7	9	11	11	11	13	9	11	11	15	26	26	22	24	24	26	20	20	17	26	19	19	15		
6	S	S	S	S	S	S	S	SW	W	SW	SW	SW	SW	SW	SW	SW	S	S	S	S	S	S	S	S		
	13	9	11	13	13	9	9	11	22	17	17	19	13	19	17	11	9	15	20	20	13	15	17	17	W 72	15
7	S	S	S	S	SW	S	S	S	S	SW	SW	SW	S	SW	SW	S	SW	SW	S	SW	SW	S	S	S		
	17	13	15	17	13	9	9	15	17	17	17	24	22	28	30	32	32	26	20	24	20	13	15	13	S 44	19
8	S	S	S	S	SW	S	S	SW	SW	SW	S	SW	SW	SW	SW	SW	SW	SW	SW	SW	SW	SW	SW	SW		
	17	15	19	17	20	19	19	26	30	37	37	46	43	32	26	22	24	22	26	22	22	20	20	19	SW72	11
9	SW	SW	SW	SW	SW	SW	W	SW	W	NW	W	SW	NE	NE	E	NE	NE	NW	NE	NE	NE	N	NW	N		
	19	15	15	15	15	15	11	11	13	11	9	4	15	13	11	4	7	35	17	20	17	7	7	7	NW80	18
10	SW	S	S	SW	SW	S	SW	SW	SW	SW	SW	SW	SW	SW	SW	SW	SW.	W	W	W	W	W	W	W		
	4	4	6	9	11	11	15	15	20	22	30	37	35	33	37	33	26	37	26	17	13	9	9	19	SW50	14
11	W	W	NW	W	W	W	NW	NW	N	N	N	NE	NE	NE	NE	NE	NE	NE	NE	NW	NW	W	SE	SE		
	20	19	15	17	28	19	22	24	19	20	22	19	22	19	19	17	17	15	9	9	6	4	6	7		
12	SE	S	S	S	S	S	S	S	S	S	S	S	SW	S	S	SW	SW	S	S	S	S	S	S	S		
	7	9	9	6	7	11	9	13	19	19	24	22	22	26	26	32	20	20	20	20	15	15	11	11	SW32	16
13	S	SW	SW	SW	SW	C	W	C	NE	N	NE	N	NE	NW	N	N	NW	N	W	N	NE	S	SW	W		
	13	15	19	11	6	0	4	0	13	11	11	11	11	11	6	6	17	11	4	7	15	9	11	9	N 46	15
14	W	N	N	N	N	NW	C	NW	N	N	NE	N	N	N	N	N	N	N	N	N	N	N	N	NE		
	17	30	26	26	17	7	0	13	11	24	30	26	30	30	28	24	32	28	28	20	17	17	13	13	N 46	13
15	N	NE	N	NE	NE	N	NE	NE	NE	N	N	N	N	N	N	N	NE	NE	NE	NE	NE	NE	SE	S		
	11	15	13	13	11	13	9	13	11	9	11	9	13	13	17	22	19	20	20	13	9	13	4	2		
16	SE	S	SE	SE	SE	SE	E	SE	SE	SE	S	S	SW	S	SW	SW	SW	SW	S	S	S	S	S	S		
	2	6	2	4	2	6	7	6	17	17	15	11	9	15	15	22	11	13	9	11	13	15	15	11		
17	S	SE	SE	SE	SE	SE	SE	NE	SE	SE	SE	SE	S	S	S	S	S	S	S	S	S	W	S	S		
	13	11	11	17	17	13	13	17	22	6	13	13	17	15	19	15	15	15	19	15	11	43	13	11	W 43	20
18	SW	S	SW	S	S	S	S	S	W	SW	W	W	W	NW	NW	W	W	NW	W	NE	NE	NW	W	W		
	11	7	6	4	4	4	4	6	13	17	17	19	19	22	20	19	24	15	11	15	7	4	4	4		
19	NW	SW	NE	SW	N	C	C	NE	NE	NE	NE	SE	NE	NE	NE	NE	NE	NE	NE	NE	N	N	N	N		
	7	4	7	4	6	0	0	7	11	11	11	20	19	19	17	19	17	17	13	13	9	15	11	9		
20	N	N	N	NE	NE	NE	N	NE	SE	SE	N	N	N	N	NW	N	NE	NE	NE	N	N	N	NE	NE		
	11	9	9	7	11	9	6	9	6	4	13	11	11	13	17	13	17	20	17	13	9	9	4	6		
21	NE	N	N	C	C	C	C	N	NE	NW	N	N	N	N	N	NE	NE	NE	NE	NE	NE	N	NE	NW		
	6	6	6	0	0	0	0	6	9	6	7	13	13	15	20	20	19	17	17	17	13	7	9	7		
22	E	S	E	E	NW	E	C	NE	E	E	E	SE	SE	SE	SE	SE	SE	E	E	E	NE	NE	E	SE		
	4	4	4	4	4	4	0	4	11	13	17	17	20	19	17	19	17	9	11	13	9	7	9	19		
23	SE	SE	SE	SE	SE	E	SE	SE	SE	SE	SE	S	SE	SE	SE	S	S	SE	S	SE	SE	SE	SE	S		
	17	17	17	17	11	7	9	17	13	17	17	15	19	20	20	13	17	17	13	26	19	19	9	9		
24	SW	S	W	W	W	W	SW	W	W	W	W	W	W	W	W	W	W	W	W	W	W	W	NW	W		
	9	9	11	15	19	19	15	19	19	17	20	26	20	24	24	30	22	30	28	19	24	17	11	9	W 46	20
25	W	W	W	W	W	W	W	W	NW	W	NW	NW	NW	NW	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE		
	9	11	11	11	9	7	9	9	7	13	15	20	22	26	20	20	11	13	17	13	11	7	9	6		
26	SE	SE	C	C	C	C	C	S	S	W	SW	SW	SW	SW	SW	SW	SW	S	S	S	S	S	S	S		
	6	4						4	6	6	11	7	9	13	13	24	17	22	17	17	15	17	19	19		
27	S	S	S	S	S	S	S	S	S	S	W	SW	W	W	W	W	W	W	W	W	W	W	W	W	W 61	30
	20	20	19	17	19	22	24	20	19	24	41	24	37	33	37	626	26	24	20	20	26	17	17	15		
28	SW	SW	W	W	W	W	SW	W	W	W	W	W	W	W	W	W	NW	NE	NE	NE	NE	N	NE	NE		
	11	11	13	13	13	9	9	9	7	11	17	19	19	19	20	17	20	20	19	15	17	15	22	15		
29	NE	NE	NE	NE	N	N	N	N	N	N	N	N	N	NE	N	N	N	NE	N	N	N	N	N	N		
	9	9	9	6	9	11	17	17	17	19	15	13	13	19	20	19	20	20	19	15	17	15	22	15		
30	N	N	NE	NE	N	N	NE	NE	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N 35	115
	17	17	19	19	13	13	15	13	13	19	20	19	24	22	24	24	22	22	20	19	13	13	15	15		
31																										

On indique un vent d'ouest par la lettre 'W'.

*Indicates later occurrences of same speed
*Indique des données postérieures de la même vite

COMPARATIVE RECORDS
RELEVÉS COMPARATIFS

MONTH / MOIS: JUNE 19 84

Temperature/Température	– °Celsius
Precipitation/Précipitation	– Millimetres (mm)
Rainfall/Hauteur de pluie	– Millimetres (mm)
Snowfall/Hauteur de neige	– Centimetres (cm)
Wind speed/Vitesse du vent	– Kilometres per hour / par heure (km/h)
Station pressure/Pression à la station	– Kilopascals (kPa)

	THIS MONTH CE MOIS-CI		PREVIOUS YEAR ANNÉE PRÉCÉDENTE		NORMAL NORMALE	RECORD FOR THE MONTH RECORD POUR LE MOIS — HIGHEST MAXIMUM ABSOLU			LOWEST MINIMUM ABSOLU			YEARS OF RECORD ANNÉES D'OBSERVATIONS
	VALUE RELEVÉ	DATE	VALUE RELEVÉ	DATE		VALUE RELEVÉ	DAY JOUR	YEAR ANNÉE	VALUE RELEVÉ	DAY JOUR	YEAR ANNÉE	
HIGHEST TEMPERATURE TEMPÉRATURE LA PLUS ÉLEVÉE	31.0	10	34.3	26		38.0	28	1971	8.0	10	1972	58
LOWEST TEMPERATURE TEMPÉRATURE LA PLUS BASSE	8.6	2	4.1	8		24.5	28	1959	-1.0	11	1972	58
MEAN MONTHLY TEMPERATURE TEMPÉRATURE MENSUELLE MOYENNE	19.5		18.3		18.1	20.6		1949	14.7		1972	58
TOTAL MONTHLY RAINFALL HAUTEUR TOTALE MENSUELLE DE PLUIE	128.4		65.2		81.1	130.8		1970	40.1		1979	17
TOTAL MONTHLY SNOWFALL HAUTEUR TOTALE MENSUELLE DE NEIGE												
TOTAL MONTHLY PRECIPITATION PRÉCIPITATION TOTALE MENSUELLE	128.4		65.2		81.1	130.8		1970	40.1		1979	17
NO OF DAYS WITH MEASURABLE PRECIPITATION NOMBRE DE JOURS AVEC PRÉCIPITATION MESURABLE	11		7		9							
GREATEST RAINFALL IN ONE DAY HAUTEUR DE PLUIE MAXIMALE EN UNE JOURNÉE	88.5	17	17.6	27		64.8	14	1971				102
GREATEST SNOWFALL IN ONE DAY HAUTEUR DE NEIGE MAXIMALE EN UNE JOURNÉE												
GREATEST PRECIPITATION IN ONE DAY PRÉCIPITATION MAXIMALE EN UNE JOURNÉE	88.5	17	17.6	27		64.8	14	1971				102
MAXIMUM RAINFALL RECORDED IN: HAUTEUR DE PLUIE MAXIMALE ENREGISTRÉE EN:												
5 MINUTES	5.4	17,18	1.0	9,27								
10 MINUTES	13.5	17	1.9	27								
15 MINUTES	17.1	17	2.3	27								
30 MINUTES	22.5	17	3.9	27								
60 MINUTES	23.4	17	6.0	27								
24 CONSECUTIVE HOURS HEURES CONSECUTIVES	88.5	17	25.0	27								
MEAN WIND SPEED (km/h) VITESSE MOYENNE DU VENT (km/h)	14.6		12.0		12.6	16.4		1978	10.9		1973	13
MAXIMUM SPEED (1 min.) (km/h) VITESSE MAXIMALE (1 min.) (km/h)	SW 46	8	W 35	15		WSW 56	15	1975				13
MAXIMUM GUST SPEED (km/h) POINTE DU VENT MAXIMALE (km/h)	NW 80	9	W 65	15								
TOTAL HOURS OF SUNSHINE TOTAL DES HEURES INSOLATION	316.6		304.1		271.8	316.6		1984	198.2		1982	14
MEAN STATION PRESSURE (kPa) PRESSION MOYENNE À LA STATION (kPa)												
GREATEST STATION PRESSURE (kPa) PRESSION MAXIMALE À LA STATION (kPa)												
LEAST STATION PRESSURE (kPa) PRESSION MINIMALE À LA STATION (kPa)												

CLIMATOLOGICAL DATA FOR THE PAST 16 YEARS
DONNÉES CLIMATOLOGIQUES POUR LES DERNIÈRE ANNÉES

YEAR ANNÉE	MAXIMUM TEMP. TEMP. MAXIMALE	MINIMUM TEMP. TEMP. MINIMALE	MEAN TEMP. TEMP. MOYENNE	RAINFALL HAUTEUR DE PLUIE	SNOWFALL HAUTEUR DE NEIGE	TOTAL PRECIP. PRECIP. TOTALE	MEAN WINDSPEED VITESSE MOYENNE DES VENTS	MAXIMUM WINDSPEED VITESSE MAXIMALE DES VENTS	HOURS SUNSHINE HEURES INSOLATION	HEATING DEGREE-DAYS DEGRÉS-JOURS DE CHAUFFE	GROWING DEGREE-DAYS DEGRÉS-JOURS DE CROISSANCE		
1969	32.8	3.3	16.5	61.5		61.5				86			
1970	31.1	6.1	18.3	130.8		130.8				47			
1971	37.8	6.1	19.9	69.9		69.9			290.9	26			
1972	31.7	- 1.1	14.7	87.6		87.6	12.8	N 53	228.5	109			
1973	32.2	8.9	19.8	98.8		98.8	10.9	S 29	218.0	12			
1974	30.6	6.1	17.4	44.5		44.5	14.6	WSW 43	290.0	53			
1975	32.8	6.1	18.8	117.6		117.6	11.8	WSW 56	283.6	34	413		
1976	32.8	6.7	19.7	101.6		101.6	13.3	SSW 48	287.5	30	441		
1977	30.8	2.0	16.6	82.0		82.0	13.4	N 43	307.1	82	347		
1978	31.8	5.0	17.3	66.4		66.4	16.4	S 50	279.2	60	369		
1979	33.4	5.8	17.8	40.1		40.1	14.1	SW 50	280.4	62	384		
1980	32.5	3.0	15.9	81.6		81.6	14.4	N 52	268.1	89	329		
1981	31.8	3.5	18.3	76.0		76.0	14.8	W 41	266.5	32	399		
1982	28.7	6.9	15.3	82.3		82.3	12.2	N 46	198.2	90	307		
1983	34.3	4.1	18.3	65.2		65.2	12.0	W 35	304.1	51	399		
1984	31.0	8.6	19.5	128.4		128.4	14.6	SW 46	316.6	19.2	436		

DRY-BULB TEMPERATURE SUMMARY* / SOMMAIRE DES TEMPÉRATURES DU THERMOMÈTRE SEC*

MONTH / MOIS JUNE 1984

Date	00	01	02	03	04	05	06	07	08	09	10	11	12	13	14	15	16	17	18	19	20	21	22	23
1	17	16	15	14	13	12	13	13	13	14	17	19	18	19	19	19	14	14	14	14	14	13	12	11
2	10	10	10	10	10	9	10	12	16	19	20	22	22	23	24	24	24	24	23	22	21	20	19	17
3	16	15	16	15	15	14	14	15	16	18	19	20	21	22	23	23	23	24	25	25	25	23	21	20
4	19	19	19	19	17	15	16	18	21	23	25	26	26	27	27	27	29	29	28	28	24	22	20	19
5	18	18	17	17	17	15	16	18	18	16	17	20	23	25	26	26	27	27	27	26	25	24	23	23
6	22	21	20	20	20	19	19	21	24	26	27	28	28	30	30	21	22	25	25	26	24	23	23	22
7	22	22	22	21	21	20	20	22	24	25	25	26	27	27	28	29	30	30	30	30	29	27	26	26
8	25	25	24	24	24	21	23	23	24	25	25	27	27	27	28	27	28	30	30	30	29	29	28	27
9	27	26	25	25	24	24	24	25	25	26	27	27	26	24	25	28	30	23	23	17	17	16	15	14
10	14	14	14	18	19	20	21	22	24	26	28	29	29	30	31	31	31	31	31	30	28	26	26	26
11	25	23	21	20	19	16	16	14	14	14	15	15	15	15	15	15	15	16	18	19	16	14	14	14
12	14	13	13	13	12	13	14	16	19	22	23	25	27	28	29	30	30	30	30	30	29	28	25	24
13	23	22	23	23	22	19	21	22	21	21	23	18	19	25	23	22	30	27	24	25	22	22	22	22
14	22	22	16	15	15	15	15	17	18	16	14	15	15	14	13	13	13	13	13	13	13	12	12	12
15	11	11	11	11	11	12	11	12	13	14	15	16	17	18	18	18	18	17	16	16	16	15	14	13
16	12	11	10	9	9	9	11	14	16	18	19	21	22	23	24	25	25	25	25	26	24	23	22	21
17	19	16	16	16	16	16	16	16	16	17	17	18	19	19	19	19	20	21	22	23	23	23	23	20
18	20	21	21	21	21	21	21	23	25	26	28	28	29	29	27	27	28	27	22	21	20	19	18	18
19	18	18	17	17	16	17	18	20	22	23	23	22	21	20	20	20	19	19	19	19	17	16	16	16
20	16	15	15	14	14	14	15	16	17	19	17	18	19	19	20	20	19	19	18	18	17	16	15	15
21	14	14	14	13	13	11	14	15	17	18	18	19	19	20	20	21	21	21	21	20	19	17	16	16
22	15	15	14	13	13	12	14	16	20	21	23	23	24	25	25	25	26	26	26	25	23	22	20	20
23	20	20	19	19	18	17	17	19	20	22	24	25	26	25	26	26	26	26	26	26	23	21	20	20
24	20	20	20	20	20	19	19	19	20	21	22	22	23	23	24	24	24	24	24	24	21	19	18	18
25	17	16	16	15	15	14	14	15	17	18	19	20	20	20	18	18	19	19	19	18	17	16	15	14
26	13	13	12	11	10	10	11	13	16	19	21	23	24	24	25	25	26	26	25	25	23	22	20	20
27	19	19	19	20	20	21	21	20	19	20	23	22	24	24	24	23	23	23	22	22	21	21	20	20
28	19	18	17	17	16	15	16	17	19	20	22	23	24	24	25	25	26	25	25	23	21	20	18	17
29	16	16	15	15	14	15	15	16	16	16	17	17	16	16	16	16	17	17	17	16	16	16	15	15
30	15	15	15	15	15	14	15	16	16	17	17	16	17	17	18	18	19	19	19	18	18	18	17	17

*Temperatures in degrees Celsius – Températures en degrés Celsius

Date	00	01	02	03	04	05	06	07	08	09	10	11	12	13	14	15	16	17	18	19	20	21	22	23
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Environment Canada / Environnement Canada
Atmospheric Environment Service / Service de l'environnement atmosphérique

MONTHLY METEOROLOGICAL SUMMARY
SOMMAIRE MÉTÉOROLOGIQUE MENSUEL

MONTH/MOIS JULY 1984

AT/À SARNIA (A), ONTARIO

LAT: 43 ° 00 'N LONG: 82 ° 19 'W ELEVATION: ALTITUDE: 181 METRES (ASL) MÈTRES (NMM) STANDARD TIME USED: HEURE NORMALE UTILISÉE: EASTERN

DATE	TEMPERATURE MAXIMUM °C	TEMPERATURE MINIMUM °C	TEMPERATURE MEAN °C	DEGREE-DAYS HEATING BASE 18.0°C	DEGREE-DAYS GROWING BASE 5.0°C	REL. HUMIDITY MAXIMUM %	REL. HUMIDITY MINIMUM %	THUNDERSTORM ORAGE	PRECIPITATION RAINFALL mm	PRECIPITATION SNOWFALL cm	PRECIPITATION TOTAL PRECIP. mm	SNOW ON GROUND cm	WIND AVERAGE SPEED km/h	WIND PREVAILING DIRECTION	WIND MAXIMUM SPEED AND DIRECTION km/h	BRIGHT SUNSHINE HOURS
1	22.8	15.4	19.1		14.1	90	63						11.7	N	N 17	13.6
2	27.5	14.2	20.9		15.9	98	40	1	11.6		11.6		8.0	S	S 17	7.6
3	29.3	16.1	22.7		17.7	90	41						10.7	S	S 19	11.2
4	25.6	17.8	21.7		16.7	83	65	1	4.8		4.8		7.5	W	W,N,NE 11	6.2
5	24.2	16.6	20.4		15.4	100	70	1	TR		TR		7.6	S	N 13	3.5
6	22.1	12.8	17.5	0.5	12.5	98	61	1	14.5		14.5		18.4	NW	NW 32	6.2
7	20.0	9.9	15.0	3.0	10.0	75	59						16.7	W	W 26	6.9
8	24.9	8.7	16.8	1.2	11.8	95	39						7.2	S	S 13	13.8
9	24.2	15.5	19.9		14.9	86	55	1	12.6		12.6		16.9	S	S 35	5.5
10	28.5	19.6	24.1		19.1	96	62	1	0.5		0.5		12.3	S	NW 32	3.5
11	23.3	17.4	20.4		15.4	98	86	1	10.3		10.3		16.1	W	SW 30	0.0
12	28.6	17.0	22.8		17.8	81	48		0.4		0.4		9.8	W	SW 22	14.3
13	29.8	15.2	22.5		17.5	96	43						8.3	S	S 17	13.6
14	31.3	18.2	24.8		19.8	89	42						12.3	S	S 22	13.2
15	28.0	21.2	24.6		19.6	88	59						14.6	S	SW 22	3.8
16	26.0	16.0	21.0		16.0	82	52						16.3	W	NW 26	12.2
17	24.0	14.3	19.2		14.2	98	56	1	33.4		33.4		13.5	S	SW 26	3.1
18	19.4	13.5	16.5	1.5	11.5	92	66		0.2		0.2		15.3	W	SW 26	8.8
19	27.0	13.1	20.1		15.1	92	37						11.5	S,W	S,W 19	13.8
20	29.2	15.2	22.2		17.2	92	40	1	3.6		3.6		13.8	S	SW 22	8.2
21	22.6	16.6	19.6		14.6	98	85						8.3	NE	NE 17	12.4
22	30.0	15.8	22.9		17.9	96	45						8.5	S	S 17	13.0
23	33.3	19.0	26.2		21.2	93	42	1	1.4		1.4		15.4	S	SW 26	9.0
24	21.8	18.2	20.0		15.0	77	67						16.4	N	N 24	9.5
25	23.5	15.3	19.4		14.4	86	47						12.0	N	N,NE 20	14.1
26	22.2	13.8	18.0		13.0	91	74		6.4		6.4		8.9	S	SE 17	0.0
27	21.5	13.2	17.4	0.6	12.4	92	67						18.2	N	N 32	12.4
28	22.6	14.6	18.6		13.6	82	60						16.1	N	N 26	14.3
29	22.2	12.6	17.4	0.6	12.3	92	40						7.5	NE	N 15	13.9
30	27.0	10.5	18.8		13.8	91	38						7.2	S	N,S 11	12.7
31	28.9	14.1	21.5		16.5	94	40						12.5	S	S 22	12.5
MEAN MOYENNE	25.5	15.2	20.4	TOTAL 7.4	TOTAL 476.9			TOTAL 10	TOTAL 99.7	TOTAL	TOTAL 99.7		12.2	PREVAILING DOMINANTE S	MAXIMUM S 35	TOTAL 292.8
NORMAL NORMALE	26.2	15.6	20.9	10.3	494.8				65.8		65.8		11.4	S		293.8

DEGREE-DAY SUMMARY – SOMMAIRE DE DEGRÉS-JOURS

BELOW 18°C AU-DESSOUS DE 18°C	THIS YEAR ANNÉE EN COURS	PREVIOUS YEAR ANNÉE PRÉCÉDENTE	NORMAL NORMALE	ABOVE 5°C AU-DESSUS DE 5°C	THIS YEAR ANNÉE EN COURS	PREVIOUS YEAR ANNÉE PRÉCÉDENTE	NORMAL NORMALE
TOTAL FOR MONTH TOTAL DU MOIS	7.4	8.2	10.3	TOTAL FOR MONTH TOTAL DU MOIS	476.9	542.0	494.8
ACCUMULATED SINCE JULY 1 ACCUMULÉE DEPUIS LE 1er JUILLET	7.4	8.2	10.3	ACCUMULATED SINCE APRIL 1 ACCUMULÉE DEPUIS LE 1er AVRIL	1183.1	1163.4	1201.6

DAYS WITH TOTAL PRECIPITATION: JOURS AVEC PRÉCIPITATIONS TOTALES: mm

0.2 OR MORE – OU PLUS	1.0 OR MORE – OU PLUS	2.0 OR MORE – OU PLUS	10.0 OR MORE – OU PLUS	50.0 OR MORE – OU PLUS
12	9	8	5	0

DAYS WITH SNOWFALL: JOURS AVEC CHÛTE DE NEIGE: cm

0.2 OR MORE – OU PLUS	1.0 OR MORE – OU PLUS	2.0 OR MORE – OU PLUS	10.0 OR MORE – OU PLUS	50.0 OR MORE – OU PLUS
0	0	0	0	0

UDC 551.506.1 (712) * humidity data incomplete

Subscription Price: $ 1.10 monthly; $ 11.15 per calendar year (January to December)
Prix d'abonnement: mensuel $ 1.10; annuel $ 11.15 (janvier à décembre)

Canada

WIND SUMMARY (Kilometres per hour)
SOMMAIRE DES VENTS (Kilomètres par heure)

MONTH / MOIS: JULY

1984

Date	00	01	02	03	04	05	06	07	08	09	10	11	12	13	14	15	16	17	18	19	20	21	22	23	Peak Gust Rafale maximum	Hour Heure
1	N 15	N 15	N- 17	N 13	N 11	NW 15	NW 6	NW 11	NW 15	NW 15	NW 11	N 11	NW 11	NW 11	N 13	N 11	N 15	N 15	N 15	NE 11	NW 7	N 4	SW 6	W 7		
2	NW 4	S 4	SW 4	E 4	S 4	SE 6	S 13	S 6	SW 4	SW 7	S 6	SE 6	W 7	SE 4	N 11	N 11	S 17	S 9	SE 11	S 9	S 9	S 9	S 9	S 7	S 33	1605
3	S 7	S 9	S 9	S 9	S 9	S 9	SW 7	SW 7	SW 7	SW 13	W 15	SW 13	SW 11	S 17	W 19	SW 11	S 13	SW 11	W 13	W 11	S 7	S 9	S 11	W 9		
4	W 6	SW 6	S 7	SW 9	W 11	W 9	SW 7	W 9	W 9	W 6	N 4	S 9	N 6	NE 11	NE 11	N 11	NW 6	NE 6	NE 4	SE 6	SE 6	S 9	SW 6	S 6		
5	SW 9	SW 7	SW 9	SW 6	S 6	S 6	SW 2	C 0	NW 4	NW 4	N 9	E 4	NW 9	N 9	N 13	N 7	S 6	S 9	S 11	S 9	SW 11	S 11	S 11	S 11		
6	S 13	S 11	S 11	SW 7	S 7	S 4	NW 32	NW 13	SE 11	S 13	S 19	W 17	W 22	W 15	W 15	N 37	W 24	NW 28	NW 32	NW 26	NW 26	NW 19	NW 19	W 20	NW 67	0557
7	W 15	W 15	W 22	W 20	W 15	W 15	W 19	W 24	W 26	NW 24	W 26	W 24	NW 20	NW 22	W 19	NW 20	NW 9	W 15	W 11	W 13	W 13	E 6	SE 4	S 4	W 41	1155
8	S 4	S 6	SW 7	SW 4	SW 6	SW 4	C 0	W 6	W 4	W 4	NW 6	N 6	NE 6	N 9	NW 6	E 7	E 6	SE 13	S 13	S 11	S 9	S 11	S 13	S 11		
9	S 11	S 11	S 9	S 7	S 7	S 9	S 13	S 19	S 17	S 15	S 19	S 19	S 22	S 35	S 26	S 24	S 33	S 22	S 15	S 19	S 19	S 13	S 11	S 11	S 37	1500
10	SE 20	S 15	S 15	S 17	S 13	S 11	S 6	NE 9	S 11	SW 11	W 11	NW 6	W 11	W 15	W 9	NE 13	NE 15	NE 11	NE 15	NW 32	E 4	NE 4	SE 7	SE 13	W 52	0050
11	S 15	W 26	W 20	SW 17	SW 30	SW 19	SW 17	W 17	SW 13	W 15	N 20	N 19	N 26	NW 22	NW 13	NW 13	NW 15	NW 11	W 11	SW 7	W 9	W 11	W 11	W 9		
12	NW 11	W 9	W 7	W 7	W 7	SW 7	SW 6	SW 7	S 7	W 13	SW 13	SW 22	W 19	W 15	W 15	NW 15	NW 13	NW 20	NE 6	NE 4	NW 6	C 0	C 0	S 6		
13	SE 4	S 6	S 7	SW 4	S 6	S 4	C 0	S 7	SW 6	W 11	W 11	W 11	W 9	N 7	N 7	SE 7	S 17	S 17	S 13	S 9	S 9	S 6	S 9	S 9		
14	S 9	S 9	S 9	S 9	S 9	S 9	S 9	S 7	SW 9	W 9	W 13	W 15	SW 17	SW 17	SW 19	SW 19	SW 19	S 22	S 17	S 11	S 9	S 9	S 9	S 11		
15	S 11	S 9	S 9	S 9	S 11	S 13	S 11	S 13	S 17	S 15	SW 13	SW 22	SW 20	S 17	SW 22	SW 19	SW 17	W 17	NW 15	W 7	W 22	W 13	W 15	W 13		
16	W 13	W 17	W 17	W 15	W 15	W 13	W 19	W 19	W 20	W 22	W 24	W 24	NW 24	NW 26	NW 17	NW 17	NW 19	NW 22	W 17	W 11	W 7	W 4	SE 4	S 4		
17	S 7	S 11	S 11	S 9	SW 7	S 11	S 11	S 9	S 15	SW 13	SW 19	SW 17	S 15	SW 20	SW 26	S 24	SW 13	S 19	SW 7	SW 13	S 9	S 7	W 11	W 11	N 82	1537
18	W 11	W 15	W 11	W 11	W 11	W 11	W 11	W 17	NW 19	W 20	NW 20	NW 22	N 15	N 19	N 22	N 22	N 28	N 26	N 20	N 13	W 4	SW 6	S 7	S 7		
19	S 7	S 7	SW 7	SW 7	SW 11	SW 9	W 7	W 9	W 13	W 19	W 13	SW 11	W 15	SW 15	W 7	W 17	SW 15	S 19	S 17	S 15	SW 11	S 9	S 9	S 7		
20	S 11	SW 7	S 9	S 9	W 9	S 11	S 11	S 11	S 17	SW 13	S 13	SW 15	SW 15	SW 19	SW 19	S 19	SW 19	S 20	SW 22	S 17	SW 17	SW 15	NW 7	S 11		
21	SW 7	SW 7	W 7	W 7	NW 7	W 4	C 0	C 0	N 4	NE 4	NE 7	NE 11	NE 11	NE 17	NE 17	NE 17	E 17	E 15	E 11	E 7	SE 6	E 4	NE 7	NE 4		
22	E 4	N 4	C 0	S 4	SE 4	S 4	SE 4	S 4	S 4	SW 7	S 9	S 9	S 9	SW 9	S 13	S 13	S 15	S 15	S 17	S 9	S 11	S 13	S 15	S 9		
23	S 9	S 9	S 9	S 9	S 9	S 9	S 9	S 13	S 13	SW 17	SW 24	SW 26	SW 26	SW 20	SW 20	W 20	W 20	W 15	W 15	NW 17	W 20	W 15	W 13	NW 13		
24	N 24	N 20	N 17	N 17	NW 13	W 9	NW 13	NW 15	NW 17	NW 13	N 15	N 19	N 17	N 19	N 20	N 13	NE 19	NE 17	N 17	N 17	N 13	N 17	N 13	N 19		
25	N 20	N 15	N 15	N 13	N 9	W 7	NW 9	W 9	N 9	NW 9	NW 7	N 9	N 11	N 13	NE 17	NE 20	NE 20	NE 19	NE 17	NE 13	E 7	E 6	S 6	S 7		
26	E 7	S 9	S 9	S 9	SE 9	SE 6	S 6	S 9	S 6	SE 9	SE 9	S 9	SE 6	E 7	SE 17	SE 13	NE 11	E 9	NE 7	S 13	S 11	S 9	S 9	NW 4		
27	N 4	C 0	C 0	W 6	NW 13	NW 11	NW 13	N 11	N 20	N 17	N 19	N 22	N 22	N 28	N 26	N 28	N 30	N 32	N 24	N 24	N 24	N 24	N 22	N 17		
28	N 19	N 19	N 17	N 17	N 13	N 13	N 13	N 9	N 15	N 13	N 19	N 19	N 20	N 17	N 20	N 24	N 26	N 24	N 19	N 13	N 15	NE 11	NW 6	NW 6		
29	NE 6	C 0	W 4	N 9	NE 9	NE 9	C 0	C 0	NE 7	N 9	N 11	N 9	N 11	N 15	N 11	NE 11	NE 13	NE 13	NE 11	NE 7	N 4	SW 4	S 4	NE 4		
30	SE 4	S 4	S 6	S 4	S 4	S 4	C 0	C 0	C 0	W 6	SW 6	W 7	N 9	N 11	NE 9	N 7	N 11	NE 7	S 11	SW 9	S 11	S 11	S 11	S 11		
31	S 9	S 11	S 9	S 9	S 9	S 7	S 6	S 4	S 7	SW 9	SW 11	S 15	SW 15	SW 19	SW 20	S 13	S 22	S 20	S 19	S 13	S 13	S 13	S 13	S 13		

On indique un vent d'ouest par la lettre 'W'.

*Indicates later occurrences of same speed
*Indique des données postérieures de la même vitesse.

COMPARATIVE RECORDS / RELEVÉS COMPARATIFS — MONTH / MOIS: JULY — 1984

Temperature/Température — °Celsius
Precipitation/Précipitation — Millimetres (mm)
Rainfall/Hauteur de pluie — Millimetres (mm)
Snowfall/Hauteur de neige — Centimetres (cm)
Wind speed/Vitesse du vent — Kilometres per hour/heure (km/h)
Station pressure/Pression à la station — Kilopascals (kPa)

	THIS MONTH / CE MOIS-CI		PREVIOUS YEAR / ANNÉE PRÉCÉDENTE		NORMAL / NORMALE	RECORD FOR THE MONTH / RECORD POUR LE MOIS — HIGHEST MAXIMUM ABSOLU			RECORD FOR THE MONTH / RECORD POUR LE MOIS — LOWEST MINIMUM ABSOLU			YEARS OF RECORD / ANNÉES D'OBSERVATIONS
	VALUE / RELEVÉ	DATE	VALUE / RELEVÉ	DATE		VALUE / RELEVÉ	DAY / JOUR	YEAR / ANNÉE	VALUE / RELEVÉ	DAY / JOUR	YEAR / ANNÉE	
HIGHEST TEMPERATURE / TEMPÉRATURE LA PLUS ÉLEVÉE	33.3	23	35.0	15		36.6	15	1977	14.4	3	1972	58
LOWEST TEMPERATURE / TEMPÉRATURE LA PLUS BASSE	8.7	8	8.0	7		23.9	9	1955	4.4	7	1960	58
MEAN MONTHLY TEMPERATURE / TEMPÉRATURE MENSUELLE MOYENNE	20.4		22.5		20.9	26.2		1982	19.1		1950	58
TOTAL MONTHLY RAINFALL / HAUTEUR TOTALE MENSUELLE DE PLUIE	99.7		37.4		65.8	106.1		1976	30.1		1982	17
TOTAL MONTHLY SNOWFALL / HAUTEUR TOTALE MENSUELLE DE NEIGE												
TOTAL MONTHLY PRECIPITATION / PRÉCIPITATION TOTALE MENSUELLE	99.7		37.4		65.8	106.1		1976	30.1		1982	17
NO OF DAYS WITH MEASURABLE PRECIPITATION / NOMBRE DE JOURS AVEC PRÉCIPITATION MESURABLE	12		7		10							
GREATEST RAINFALL IN ONE DAY / HAUTEUR DE PLUIE MAXIMALE EN UNE JOURNÉE	33.4	17	13.6	29		63.5	20	1904				102
GREATEST SNOWFALL IN ONE DAY / HAUTEUR DE NEIGE MAXIMALE EN UNE JOURNÉE												
GREATEST PRECIPITATION IN ONE DAY / PRÉCIPITATION MAXIMALE EN UNE JOURNÉE	33.4	17	13.6	29		63.5	20	1904				102
MAXIMUM RAINFALL RECORDED IN: / HAUTEUR DE PLUIE MAXIMALE ENREGISTRÉE EN:												
5 MINUTES	9.7	17	6.0	4								
10 MINUTES	14.4	17	8.9	4								
15 MINUTES	16.7	17	10.6	4								
30 MINUTES	22.7	17	10.8	4								
60 MINUTES	28.1	17	12.6	4								
24 CONSECUTIVE HOURS / HEURES CONSECUTIVES	33.4	17	13.6	29								
MEAN WIND SPEED (km/h) / VITESSE MOYENNE DU VENT (km/h)	12.2		13.1		11.4	14.9		1978	8.1		1979	14
MAXIMUM SPEED (1 min.) (km/h) / VITESSE MAXIMALE (1 min.) (km/h)	S 35	9	NW 48	4		NW 91	20	1980	SW 26	14	1972	14
MAXIMUM GUST SPEED (km/h) / POINTE DU VENT MAXIMALE (km/h)	N 62	17	W 102	31								
TOTAL HOURS OF SUNSHINE / TOTAL DES HEURES INSOLATION	292.8		288.1		293.8	343.4		1975	267.4		1980	14
MEAN STATION PRESSURE (kPa) / PRESSION MOYENNE À LA STATION (kPa)												
GREATEST STATION PRESSURE (kPa) / PRESSION MAXIMALE À LA STATION (kPa)												
LEAST STATION PRESSURE (kPa) / PRESSION MINIMALE À LA STATION (kPa)												

CLIMATOLOGICAL DATA FOR THE PAST 10 YEARS / DONNÉES CLIMATOLOGIQUES POUR LES 10 DERNIÈRE ANNÉES

YEAR / ANNÉE	MAXIMUM TEMP. / TEMP. MAXIMALE	MINIMUM TEMP. / TEMP. MINIMALE	MEAN TEMP. / TEMP. MOYENNE	RAINFALL / HAUTEUR DE PLUIE	SNOWFALL / HAUTEUR DE NEIGE	TOTAL PRECIP. / PRECIP. TOTALE	MEAN WINDSPEED / VITESSE MOYENNE DES VENTS	MAXIMUM WINDSPEED / VITESSE MAXIMALE DES VENTS	HOURS SUNSHINE / HEURES INSOLATION	HEATING DEGREE-DAYS / DEGRÉS-JOURS DE CHAUFFE	GROWING DEGREE-DAYS / DEGRÉS-JOURS DE CROISSANCE		
1975	32.8	7.2	21.7	37.6		37.6	10.1	N 35	343.4	6	517.6		
1976	31.3	9.4	19.9	106.1		106.1	13.4	N 35	282.3	12	457.4		
1977	36.6	8.4	21.8	66.7		66.7	10.5	W 46	302.7	11	504.9		
1978	32.6	6.6	19.9	30.4		30.4	14.9	N 52	268.6	22	463.0		
1979	30.7	6.4	19.7	89.2		89.2	8.1	SW 28	286.6	22	613.4		
1980	31.4	9.2	20.9	99.3		99.3	11.6	NW 91	267.4	6	487.9		
1981	34.0	9.0	21.2	64.2		64.2	11.7	NW 59	280.7	5	503.1		
1982	32.1	10.2	20.7	30.1		30.1	11.4	W,SW 37	310.9	10	491.8		
1983	35.0	8.0	22.5	37.4		37.4	13.1	NW 48	288.1	8	542.0		
1984	33.3	8.7	20.4	99.7		99.7	12.2	S 35	292.8	7	476.9		

DRY-BULB TEMPERATURE SUMMARY*
SOMMAIRE DES TEMPÉRATURES DU THERMOMÈTRE SEC*

MONTH / MOIS: JULY 1984

Date	00	01	02	03	04	05	06	07	08	09	10	11	12	13	14	15	16	17	18	19	20	21	22	23
1	17	17	17	17	16	15	16	17	18	19	19	20	20	21	22	22	23	22	22	21	20	19	18	
2	17	17	17	17	16	14	15	17	21	24	25	26	27	27	27	27	22	20	21	24	23	22	21	20
3	19	18	18	17	17	17	18	20	22	24	26	27	27	28	29	29	29	29	28	27	26	25	24	24
4	24	24	22	22	22	21	21	21	22	23	24	25	25	26	23	23	22	21	21	21	21	20	20	19
5	18	18	18	17	17	17	17	19	21	21	20	23	24	21	19	19	20	20	20	21	21	21	21	20
6	18	18	18	18	18	19	18	16	16	18	18	20	20	22	19	22	22	22	22	19	17	17	15	14
7	14	13	12	12	11	10	11	12	13	13	14	15	15	16	18	18	20	20	20	20	19	16	14	13
8	13	12	12	11	10	9	10	13	16	19	19	20	20	21	23	24	25	25	24	24	22	21	20	19
9	18	18	18	18	18	16	17	19	21	21	22	22	22	23	24	24	24	23	23	22	21	21	21	21
10	20	20	20	20	20	21	20	21	21	24	23	27	28	28	29	27	26	25	23	21	21	21	21	21
11	22	23	21	21	21	21	22	21	22	22	19	19	18	18	19	19	22	23	23	23	22	20	20	19
12	18	18	18	18	17	17	17	19	21	24	25	27	28	28	29	28	29	25	23	23	23	22	21	20
13	18	18	17	17	16	16	16	19	23	26	27	28	28	28	29	29	30	30	30	29	27	25	23	22
14	21	21	20	20	19	19	19	21	24	26	29	30	30	31	31	31	31	31	31	31	31	29	28	26
15	25	23	23	22	22	22	21	22	24	25	25	27	27	26	26	27	28	28	28	28	27	26	25	24
16	24	23	23	22	21	18	18	19	21	22	22	23	23	23	23	24	25	26	26	25	24	22	21	18
17	17	16	16	16	15	15	15	17	19	20	23	20	20	22	24	24	17	19	21	20	20	19	19	18
18	18	17	16	15	15	15	15	16	16	16	18	19	19	18	18	19	19	19	18	19	17	17	15	14
19	14	14	13	13	14	14	14	17	19	21	22	23	24	24	25	27	27	27	27	27	26	24	22	20
20	18	18	17	17	16	16	16	18	21	23	24	25	27	27	29	28	29	29	29	29	28	26	24	24
21	22	21	20	19	19	18	17	19	20	20	21	21	22	22	22	22	22	22	22	22	22	21	20	19
22	19	18	18	17	16	16	16	18	21	24	26	27	28	28	28	30	30	30	30	29	26	24	23	22
23	20	20	20	20	20	19	20	22	24	26	28	29	31	31	32	33	33	33	31	29	28	26	24	23
24	22	21	20	20	20	19	19	20	20	20	21	21	21	21	22	21	22	22	22	21	20	19	19	19
25	18	18	18	18	17	16	16	18	18	19	20	21	22	22	23	23	24	24	23	23	20	19	18	17
26	16	16	16	16	15	14	15	17	19	20	21	21	22	21	18	18	17	17	17	17	17	16	16	15
27	15	15	15	14	14	15	16	18	19	19	20	20	21	21	21	21	21	21	21	20	20	19	19	18
28	18	18	17	17	17	16	17	18	19	20	20	21	21	22	22	22	22	22	21	21	21	19	18	17
29	16	15	14	13	14	16	14	17	19	20	20	21	21	22	22	22	22	22	22	21	19	18	16	15
30	14	13	13	12	11	11	12	14	18	21	23	25	26	25	26	26	27	27	27	25	23	20	19	
31	18	17	17	16	15	15	15	17	20	23	25	26	27	28	28	28	29	28	28	27	25	24	22	21

*Temperatures in tenths of degrees Celsius – Températures en dixième de degrés Celsius

Date	00	01	02	03	04	05	06	07	08	09	10	11	12	13	14	15	16	17	18	19	20	21	22	23
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Environment Canada / Environnem Canada
Atmospheric Environment Service / Service de l'environnement atmosphérique

MONTHLY METEOROLOGICAL SUMMARY
SOMMAIRE MÉTÉOROLOGIQUE MENSUEL

MONTH/MOIS JUNE/JUIN 19 84

AT/À LONDON A ONTARIO

LAT: 43 ° 02 'N LONG: 81 ° 09 'W ELEVATION: ALTITUDE: 278 METRES (ASL) MÈTRES (NMM) STANDARD TIME USED: HEURE NORMALE UTILISÉE: Eastern

DATE	TEMPERATURE TEMPÉRATURE			DEGREE-DAYS DEGRÉS-JOURS		REL. HUMIDITY HUMIDITÉ REL.		THUNDERSTORM ORAGE	PRECIPITATION PRÉCIPITATIONS			SNOW ON GROUND NEIGE AU SOL	WIND VENT			BRIGHT SUNSHINE INSOLATION
	MAXIMUM MAXIMALE °C	MINIMUM MINIMALE °C	MEAN MOYENNE °C	HEATING DE CHAUFFE BASE 18.0°C	GROWING DE CROISSANCE BASE 5.0°C	MAXIMUM MAXIMALE %	MINIMUM MINIMALE %		RAINFALL PLUIE (HAUTEUR) mm	SNOWFALL NEIGE (HAUTEUR) cm	TOTAL PRECIP. PRÉCIP. TOTALE mm	cm	AVERAGE SPEED VITESSE MOYENNE km/h	PREVAILING DIRECTION DIRECTION DOMINANTE	MAXIMUM SPEED AND DIRECTION VITESSE MAXIMALE ET DIRECTION km/h	HOURS HEURES
1	23.2	10.0	16.6	1.4	11.6	82	38						9.4	NNW	NW 17	11.
2	23.6	8.0	15.8	2.2	10.8	82	35	1	7.2		7.2		9.4	SE	SE 19	12.
3	22.1	11.4	16.8	1.2	11.8	88	38		0.4		0.4		16.1	NW	NW 28*	11.
4	26.5	12.6	19.6		14.6	72	32						13.1	W	W 22	13.
5	26.3	12.1	19.2		14.2	82	45		0.2		0.2		12.1	SVRL	S 22	8.
6	29.8	18.0	23.9		18.9	88	55	1	20.0		20.0		14.3	SVRL	S 26	7.
7	27.7	18.5	23.1		18.1	83	55						16.6	SSW	SSW 28	10.
8	28.0	20.3	24.2		19.2	78	58						25.9	SSW	SSW 46	6.
9	28.3	19.1	23.7		18.7	88	58	1	0.6		0.6		14.3	WSW	SSW 22*	8.
10	29.5	18.9	24.2		19.2	78	48		0.6		0.6		18.0	SW	SW 33*	10.
11	23.3	11.1	17.2	0 8	12.2	88	56						14.9	NW	NW 28*	10.
12	26.4	9.8	18.1		13.1	93	42						14.1	S	SSW 22*	13.
13	30.5	20.1	25.3		20.3	88	52	1	4.6		4.6		10.7	SW	WSW 19	10.
14	20.4	9.0	14.7	3.3	9.7	94	67		TR		TR		17.8	NW	NW 28	0.
15	19.7	8.9	14.3	3.7	9.3	93	46						6.9	NE	N 15	10.
16	23.5	7.5	15.5	2.5	10.5	93	33						9.5	SSE	E 17*	11.
17	21.5	14.1	17.8	0.2	12.8	100	88	1	64.0		64.0		12.8	SVRL	SE 24	0.
18	28.7	18.8	23.8		18.8	94	70	1	12.4		12.4		12.5	SW	SW 26	6.
19	25.6	14.8	20.2		15.2	94	47						12.5	NW	NW 22	14.
20	23.5	13.0	18.3		13.3	94	50						9.0	ENE	ENE 17*	13.
21	25.0	12.4	18.7		13.7	100	44						6.1	NE	NE 11	13.
22	25.0	12.6	18.8		13.8	88	44						13.8	SVRL	ESE 22	9.
23	26.7	14.3	20.5		15.5	94	61	1	18.6		18.6		17.2	SE	SE 24	7.
24	22.8	12.9	17.9	0.1	12.9	94	53		1.0		1.0		17.8	WSW	WNW 32	9.
25	19.9	10.4	15.2	2.8	10.2	94	49						12.0	NW	NW 24	14.
26	23.8	8.3	16.1	1.9	11.1	93	44									
27	22.4	16.2	19.3		14.3	94	60	1	14.2		14.2		8.0	SVRL	SSW 24	14.
28	24.4	14.2	19.3		14.3	88	47						20.3	SSW	SW 32	2.
29	21.9	12.3	17.1	0.9	12.1	94	60						12.2	W	W 22*	13.
30	24.7	12.3	18.5		13.5	88	54						12.0	NNW	N 19	12.
31													9.3	NE	NE 17	12.
MEAN MOYENNE	24.8	13.4	19.1	TOTAL 21.0	TOTAL 423.7	89	51	TOTAL 8	TOTAL 143.8		TOTAL 143.8		13.3	PREVAILING DOMINANTE NW	MAXIMUM SSW 46	TOTAL 302.
NORMAL NORMALE	23.9	11.8	17.9	51.3	385.6			5	73.6		73.6		13.5	S		243.

DEGREE-DAY SUMMARY – SOMMAIRE DE DEGRÉS-JOURS

BELOW 18°C AU-DESSOUS DE 18°C	THIS YEAR ANNÉE EN COURS	PREVIOUS YEAR ANNÉE PRÉCÉDENTE	NORMAL NORMALE	ABOVE 5°C AU-DESSUS DE 5°C	THIS YEAR ANNÉE EN COURS	PREVIOUS YEAR ANNÉE PRÉCÉDENTE	NORMAL NORMALE
TOTAL FOR MONTH TOTAL DU MOIS	21.0	51.5	51.3	TOTAL FOR MONTH TOTAL DU MOIS	423.7	403.2	385.6
ACCUMULATED SINCE JULY 1 ACCUMULÉE DEPUIS LE 1er JUILLET	4238.1	3767.1	4069.5	ACCUMULATED SINCE APRIL 1 ACCUMULÉE DEPUIS LE 1er AVRIL	680.7	615.5	704.2

DAYS WITH TOTAL PRECIPITATION: JOURS AVEC PRÉCIPITATIONS TOTALES: mm

0.2 OR MORE – OU PLUS	1.0 OR MORE – OU PLUS	2.0 OR MORE – OU PLUS	10.0 OR MORE – OU PLUS	50.0 OR MORE – OU PLUS
12	8	7	5	1

DAYS WITH SNOWFALL: JOURS AVEC CHÛTE DE NEIGE: cm

0.2 OR MORE – OU PLUS	1.0 OR MORE – OU PLUS	2.0 OR MORE – OU PLUS	10.0 OR MORE – OU PLUS	50 OR MO – OU PLU
0	0	0	0	0

UDC 551.506.1 (713.26)

* Indicates more than one occurrence of the same speed but not necessarily from the same direction.
TR = TRACE
SVRL = SEVERAL

Subscription Price: $1.06 monthly; $10.60 per calendar year (January to Decembe
Prix d'abonnement: mensuel $1.06; annuel $10.60 (janvier à décembre)

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DRY-BULB TEMPERATURE SUMMARY* LONDON A ONTARIO **MONTH** JUNE **1984**
SOMMAIRE DES TEMPÉRATURES DU THERMOMÈTRE SEC* **MOIS** JUIN

Date	00	01	02	03	04	05	06	07	08	09	10	11	12	13	14	15	16	17	18	19	20	21	22	23
1	136	128	124	118	110	113	122	137	164	180	188	199	208	214	220	221	232	220	218	200	178	156	147	130
2	114	100	110	90	88	80	104	134	168	190	203	205	216	220	222	236	234	217	201	180	165	156	154	156
3	118	116	118	122	125	126	128	126	138	155	162	184	184	194	200	208	215	220	217	210	185	166	153	154
4	156	159	153	142	128	128	140	166	199	219	236	244	252	257	262	263	264	258	247	228	191	174	168	141
5	128	143	150	142	132	122	146	174	206	209	207	202	208	224	254	260	260	257	253	239	220	211	192	182
6	186	187	191	182	189	181	195	211	227	252	266	274	281	289	294	238	222	193	194	209	199	191	188	187
7	192	198	196	186	186	185	191	213	230	247	259	268	255	261	272	260	271	266	275	255	233	214	206	221
8	216	221	214	208	206	208	213	221	233	246	237	249	265	271	267	264	265	278	276	269	256	255	256	250
9	242	238	235	233	230	228	238	238	243	251	262	270	273	278	270	275	276	280	271	241	230	208	203	206
10	197	191	200	197	190	190	208	218	235	256	271	284	287	291	286	289	290	280	264	267	261	248	231	207
11	217	222	200	186	174	165	162	134	130	126	136	152	155	170	184	195	196	204	204	201	171	155	133	122
12	119	114	104	110	105	101	126	155	184	205	216	218	231	241	254	260	260	256	256	242	224	210	202	214
13	222	220	210	222	219	206	212	217	228	242	253	273	285	285	291	296	300	298	288	233	229	219	217	214
14	204	204	199	192	183	172	165	165	162	163	143	140	150	151	144	149	155	150	148	141	126	123	114	103
15	92	90	97	99	102	108	112	122	140	152	159	166	166	173	184	192	190	190	190	178	149	129	124	108
16	100	95	95	86	89	79	105	125	143	158	178	186	202	213	224	228	226	217	211	197	178	171	161	150
17	153	153	146	143	147	150	154	160	160	160	163	167	174	182	190	198	208	212	212	208	198	198	199	208
18	202	200	209	207	206	212	209	226	248	262	270	279	281	231	226	250	258	261	254	242	223	210	200	193
19	188	188	185	180	177	170	183	197	208	219	227	235	241	250	255	247	246	246	238	231	202	191	167	168
20	161	154	146	140	133	134	139	154	171	180	193	204	209	216	224	224	223	234	226	204	184	172	167	167
21	154	151	142	134	131	130	140	158	177	192	202	212	219	220	227	233	238	240	238	232	211	181	158	167
22	158	143	135	134	132	132	146	167	190	206	218	225	238	242	248	250	244	232	235	219	198	184	172	165
23	157	148	148	152	154	150	152	162	186	213	228	243	257	263	261	256	251	242	239	229	215	210	206	201
24	192	195	196	199	199	197	193	196	196	191	196	213	223	219	214	214	218	214	212	210	196	169	152	133
25	133	130	128	117	118	129	136	143	157	165	177	188	185	195	182	196	190	192	189	186	165	146	143	128
26	118	106	101	100	93	93	112	133	165	176	191	205	214	221	230	238	226	222	214	199	178	165	157	166
27	170	175	166	171	194	193	198	204	198	185	193	204	202	177	185	209	218	219	208	198	191	179	176	170
28	168	162	152	148	148	148	154	163	182	188	199	217	223	233	239	240	243	241	231	225	208	174	174	166
29	148	142	142	140	138	128	125	139	159	172	183	197	205	213	218	217	208	203	191	174	161	149	140	138
30	132	131	127	125	129	127	136	156	182	190	204	214	228	228	231	241	240	241	242	236	217	194	185	178
31																								

*Temperatures in tenths of degrees Celsius – Températures en dixième de degrés Celsius

COMPARATIVE RECORDS
RELEVÉS COMPARATIFS

LONDON (A) ONTARIO

MONTH / MOIS JUNE/JUIN 1984

Temperature/Température – °Celsius
Precipitation/Précipitation – Millimetres (mm)
Rainfall/Hauteur de pluie – Millimetres (mm)
Snowfall/Hauteur de neige – Centimetres (cm)
Wind speed/Vitesse du vent – Kilometres per hour/per heure (km/h)
Station pressure/Pression à la station – Kilopascals (kPa)

	THIS MONTH CE MOIS-CI		PREVIOUS YEAR ANNÉE PRÉCÉDENTE		NORMAL NORMALE	RECORD FOR THE MONTH RECORD POUR LE MOIS						YEARS OF RECORD ANNÉES D'OBSERVATIONS
						HIGHEST MAXIMUM ABSOLU			LOWEST MINIMUM ABSOLU			
	VALUE RELEVÉ	DATE	VALUE RELEVÉ	DATE		VALUE RELEVÉ	DAY JOUR	YEAR ANNÉE	VALUE RELEVÉ	DAY JOUR	YEAR ANNÉE	
HIGHEST TEMPERATURE TEMPÉRATURE LA PLUS ÉLEVÉE	30.5	13	33.6	26		37.2	6	1925	26.3	28	1982	111
LOWEST TEMPERATURE TEMPÉRATURE LA PLUS BASSE	7.5	16	4.0	8		8.9	9	1943	-1.1	6	1894	111
MEAN MONTHLY TEMPERATURE TEMPÉRATURE MENSUELLE MOYENNE	19.1		18.4		17.9	22.5		1919	15.3		1972 1980	68
TOTAL MONTHLY RAINFALL HAUTEUR TOTALE MENSUELLE DE PLUIE	143.8		89.7		73.6	208.3		1943	16.3		1955	64
TOTAL MONTHLY SNOWFALL HAUTEUR TOTALE MENSUELLE DE NEIGE												
TOTAL MONTHLY PRECIPITATION PRÉCIPITATION TOTALE MENSUELLE	143.8		89.7		73.6	208.3		1943	16.3		1955	64
NO OF DAYS WITH MEASURABLE PRECIPITATION NOMBRE DE JOURS AVEC PRÉCIPITATION MESURABLE	12		7		11	19		1973	4		1934 1965	64
GREATEST RAINFALL IN ONE DAY HAUTEUR DE PLUIE MAXIMALE EN UNE JOURNÉE	64.0	17	55.0	27		82.6	25	1968				44
GREATEST SNOWFALL IN ONE DAY HAUTEUR DE NEIGE MAXIMALE EN UNE JOURNÉE												
GREATEST PRECIPITATION IN ONE DAY PRÉCIPITATION MAXIMALE EN UNE JOURNÉE	64.0	17	55.0	27		82.6	25	1968				44
MAXIMUM RAINFALL RECORDED IN: HAUTEUR DE PLUIE MAXIMALE ENREGISTRÉE EN:												
5 MINUTES	5.9	18	17.2	27		17.2	27	1983				27
10 MINUTES	7.5	6	26.6	27		26.6	27	1983				27
15 MINUTES	10.3	6	29.5	27		29.5	27	1983				27
30 MINUTES	12.8	6	37.6	27		37.6	27	1983				27
60 MINUTES	16.4	6	41.1	27		41.1	27	1983				27
24 CONSECUTIVE HOURS HEURES CONSECUTIVES	64.6	17	55.0	27		64.6	17	1984				11
MEAN WIND SPEED (km/h) VITESSE MOYENNE DU VENT (km/h)	13.3		11.0		13.5	15.4		1958	10.9		1971	27
MAXIMUM SPEED (1 min.) (km/h) VITESSE MAXIMALE (1 min.) (km/h)	SSW 46	8	NE37	28		W 63	27	1954	S 33	15	1982 1982	27
MAXIMUM GUST SPEED (km/h) POINTE DU VENT MAXIMALE (km/h)	SSW 72	8	S54	30		WSW121	27	1969	SW 52	28	1965	11
TOTAL HOURS OF SUNSHINE TOTAL DES HEURES INSOLATION	302.8		291.5		243.7	315.8		1966	168.1		1969	49
MEAN STATION PRESSURE (kPa) PRESSION MOYENNE À LA STATION (kPa)	98.22		98.36		98.18	98.42		1965	97.90		1969	27
GREATEST STATION PRESSURE (kPa) PRESSION MAXIMALE À LA STATION (kPa)	99.36	15	99.18	22		99.82	24	1963				27
LEAST STATION PRESSURE (kPa) PRESSION MINIMALE À LA STATION (kPa)	96.85	27	97.10	4					96.19	23	1972	27

CLIMATOLOGICAL DATA FOR THE PAST 10 YEARS
DONNÉES CLIMATOLOGIQUES POUR LES 10 DERNIÈRE ANNÉES

YEAR ANNÉE	MAXIMUM TEMP. TEMP. MAXIMALE	MINIMUM TEMP. TEMP. MINIMALE	MEAN TEMP. TEMP. MOYENNE	RAINFALL HAUTEUR DE PLUIE	SNOWFALL HAUTEUR DE NEIGE	TOTAL PRECIP. PRÉCIP. TOTALE	MEAN WINDSPEED VITESSE MOYENNE DES VENTS	MAXIMUM WINDSPEED VITESSE MAXIMALE DES VENTS	HOURS SUNSHINE HEURES INSOLATION	HEATING DEGREE-DAYS DEGRÉS-JOURS DE CHAUFFE	GROWING DEGREE-DAYS DEGRÉS-JOURS DE CROISSANCE		
1975	30.8	6.1	18.6	91.2		91.2	14.0	W 42	237.5	34.4	396.7		
1976	30.2	6.1	19.4	69.1		69.1	14.3	SSW 50	243.8	21.4	432.9		
1977	29.9	2.7	16.7	81.4		81.4	13.7	WSW 44	268.9	71.7	350.8		
1978	31.9	3.3	16.7	63.2		63.2	13.6	WSW 44	270.6	72.0	353.2		
1979	29.9	3.9	16.9	49.7		49.7	14.3	SSW 41	258.3	64.7	358.2		
1980	31.4	1.1	15.3	89.5		89.5	12.7	N 41	230.9	101.6	309.3		
1981	30.7	2.2	17.7	98.6		98.6	13.0	W/NW35	245.8	38.9	383.3		
1982	26.3	7.3	16.1	138.7		138.7	10.9	S 33	169.3	66.2	337.1		
1983	33.6	4.0	18.4	89.7		89.7	11.0	NE 37	291.5	51.5	398.2		
1984	30.5	7.5	19.1	143.8		143.8	13.3	SSW 46	302.8	21.0	423.7		

WIND SUMMARY (Kilometres per hour) LONDON A, ONTARIO MONTH JUNE 19 84
SOMMAIRE DES VENTS (Kilomètres par heure) MOIS JUIN

Date	00	01	02	03	04	05	06	07	08	09	10	11	12	13	14	15	16	17	18	19	20	21	22	23	Peak Gust Rafale maximum	Hour Heure
1	SW 6	SW 13	W 9	WNW 9	NW 9	WNW 13	NW 13	NW 11	NNW 11	N 11	N 9	NNW 6	WNW 7	N 4	NNW 13	NNW 7	NNW 6	NW 11	NNW 9	NW 17	NW 11	NNW 7	N 11	NE 9		
2	C	NE 9	NE 11	NE 7	NE 7	W 6	C	ENE 4	C	ENE 11	ESE 11	E 13	SE 9	E 9	C	SE 7	E 7	S 15	S 17	SSE 17	SE 15	SE 11	SE 13	SE 19	NW 44	2317
3	SE 7	ESE 15	ESE 4	C	C	WNW 15	NW 26	NW 26	NW 28	NW 26	NW 20	NW 22	NW 24	WNW 28	NW 22	NW 22	NW 19	NW 17	WNW 15	W 7	SW 7	SW 7	SW 9	SW 13	NW 43	0802
4	SW 15	WSW 13	W 13	W 11	WSW 11	WSW 9	W 7	W 11	W 15	W 15	W 19	W 20	W 19	W 19	WSW 17	W 22	WSW 17	SW 11	SW 17	SSW 15	SSW 11	S 9	SSE 4	E 4		
5	SE 6	SE 4	SE 4	ESE 6	ESE 6	ESE 7	ESE 6	SSE 7	S 11	SSW 13	SSW 9	SW 11	ESE 11	SE 15	SSE 19	S 22	SSE 19	S 19	S 19	SSE 15	SSE 11	S 19	SSE 13	S 9		
6	SSW 15	SSW 11	SSW 15	SW 13	SW 15	SSW 7	SW 9	SW 13	SW 15	WSW 19	W 17	W 17	W 17	WSW 19	SW 13	S 26	SSW 22	W 6	SE 11	S 17	S 15	SSE 9	S 9	S 13	SSW 43	1428
7	S 15	SSW 17	SW 7	SSW 9	SW 11	SSE 6	S 7	SSW 19	SW 20	SW 22	SW 19	SW 17	S 19	SSW 22	SSW 22	SSW 28	SW 26	SSW 22	SW 24	SSW 13	SSE 13	SSE 13	SSE 7	SSW 17	SW 44	1540
8	S 19	SSW 19	SSW 17	SSW 17	SSW 17	SSW 19	SSW 17	SSW 22	SSW 26	SSW 30	SSW 33	SSW 37	SSW 44	SSW 46	SSW 35	SW 22	SSW 24	SW 28	SW 28	SSW 22	SSW 22	SW 24	SW 28	SW 22	SSW 72	1139
9	SW 22	SW 20	SW 20	SW 19	WSW 15	WSW 19	WSW 17	WSW 15	WSW 17	W 17	W 17	WNW 17	W 13	W 13	SW 17	SSW 22	SSW 11	SSW 7	SSW 22	WSW 11	C	ESE 7	ENE 7	SE 11	W 63	1841
10	SE 9	SSE 11	SSW 7	SSW 7	SSW 9	SW 9	SW 15	SW 19	SW 17	SW 22	SW 26	SW 32	SW 33	SW 30	SSW 33	SSW 33	SSW 26	SW 30	SW 19	SW 11	WSW 11	NW 6	W 4	WSW 6	SW 52	1309
11	WSW 15	W 24	W 11	W 11	W 11	WNW 13	WNW 24	NW 28	NW 28	NW 28	NW 24	NW 22	NW 19	NW 19	NW 19	NW 19	NW 13	WNW 9	NW 9	WNW 7	WNW 7	NW 6	C	C	NW 44	0707
12	ENE 6	C	C	E 4	E 4	ESE 7	SE 7	SSE 9	S 15	S 19	S 20	SSW 22	S 20	SSE 22	S 20	SSW 20	S 22	S 19	S 15	S 15	SSE 15	SSE 15	SSE 15	S 11	SSW 35	1426
13	SSW 20	SW 13	SW 11	SW 17	WSW 11	WSW 7	W 5	NW 7	C	W 5	W 13	W 9	WNW 11	NW 11	WNW 13	WSW 19	WSW 15	W 15	WSW 15	NNW 7	WSW 15	SW 9	W 7	SW 11	WSW 48	1943
14	SW 11	SW 13	WNW 11	NW 26	NW 13	WNW 19	NW 13	NW 19	NW 22	NW 26	NW 22	NNW 19	NW 28	WNW 22	NW 17	WNW 15	NNW 24	NW 15	NW 17	N 22	NNW 13	NNW 15	NNW 15	N 11	NW 37	1020
15	N 11	N 13	N 11	N 15	NNE 11	NE 11	NE 7	NE 7	NE 13	E 7	NE 9	N 6	C	C	NNW 9	C	W 6	NW 6	WNW 6	NE 4	SSW 11	S 7	C	C		
16	E 6	E 7	ENE 6	ENE 7	E 7	ENE 9	ENE 9	E 17	E 17	E 11	S 5	SE 6	SE 11	SE 13	S 17	SSE 7	SSW 11	S 15	SSE 13	SSE 7	SSE 7	SSE 11	SSE 9	SSE 9		
17	E 6	ESE 6	SE 6	ENE 9	ESE 13	ESE 13	SE 15	ESE 15	ESE 19	SE 24	SE 15	SSE 15	SSE 9	SSE 17	S 17	S 15	S 15	SSE 11	S 17	SSE 15	SSE 13	S 7	ENE 7	SSW 7		
18	S 6	SW 6	SW 6	SW 17	SW 4	SW 7	WSW 7	SW 6	SW 17	WSW 19	SW 22	SW 24	SW 26	WSW 24	W 9	W 11	WNW 15	NW 19	NW 15	NW 19	NW 7	NW 7	NW 6	C	WSW 46	1325
19	NW 7	NNW 11	NW 9	NW 11	NW 13	NNW 9	NW 6	NW 13	WNW 15	WNW 15	WNW 15	WNW 17	NW 15	NW 17	NW 22	NNW 19	WNW 19	NNW 17	NNW 15	NNE 15	NNE 11	N 9	C	C		
20	NW 6	C	C	ENE 7	ENE 7	ENE 9	ENE 17	E 17	ESE 15	ESE 15	E 13	ENE 9	ENE 13	NE 11	ENE 11	NNW 6	NNE 7	W 4	ENE 6	S 13	SSW 11	S 7	S 7	S 6		
21	E 4	NE 4	C	ENE 4	C	NE 7	NE 7	ENE 7	ENE 9	ESE 9	E 9	E 7	NE 11	ENE 7	N 7	N 6	NW 7	NE 7	NNE 7	NE 7	NE 7	SSW 7	SE 6	SW 4		
22	C	N 6	C	ENE 9	ENE 6	C	ENE 7	ENE 15	E 15	E 15	E 17	ESE 19	ESE 22	ESE 20	SE 19	E 19	SE 15	SE 15	ESE 13	ENE 19	E 19	E 17	ENE 15	E 15		
23	ENE 13	ENE 11	ENE 11	ENE 15	ENE 13	E 15	E 15	E 19	E 17	ESE 17	ESE 19	ESE 22	SE 24	SE 22	ESE 22	SE 22	SSE 17	S 17	SSE 17	SE 20	SE 17	SE 19	SE 13	SE 11		
24	SSE 17	SSW 9	SSW 9	SW 13	WSW 17	WSW 13	WSW 15	WSW 19	WSW 20	W 24	W 19	WNW 19	WNW 22	NW 26	WNW 22	NW 22	WNW 32	WNW 26	W 24	W 9	WSW 11	NW 22	NW 20	NW 6	NW 46	2040
25	WSW 9	W 9	WSW 7	WSW 6	WSW 7	WSW 9	WSW 7	W 9	WNW 9	NW 11	WNW 19	NW 19	WNW 22	NW 22	NW 24	NW 15	NW 20	NW 22	NW 17	NW 13	NW 4	C	NW 6	NW 4	NW 39	1420
26	NNW 6	C	C	C	C	C	C	C	C	WSW 6	C	W 11	W 11	NW 11	C	WSW 7	SSW 22	SSW 22	SSW 24	S 13	SSE 11	SSE 12	SE 11	SE 15	SSW 33	1545
27	SE 15	S 19	SE 15	SSE 13	SSW 20	SSW 22	SSW 26	SSW 28	SW 24	SSW 15	SSW 22	SW 32	SSW 22	SSW 22	SSW 20	SW 13	W 26	W 30	W 26	W 24	W 22	W 13	WSW 11	WSW 9	W 48	1738
28	WSW 13	WSW 15	W 11	W 11	W 13	W 9	W 9	W 11	WNW 11	W 7	WNW 15	W 17	WNW 19	W 22	W 22	WNW 19	WNW 15	NW 15	NW 17	NNW 7	N 4	C	C	NNW 9	WNW 33	1225
29	N 15	N 13	NNE 6	NE 6	N 6	N 11	NE 9	N 11	NNE 15	N 19	N 15	N 11	NW 11	NW 9	NNW 15	NNW 15	NNW 17	NW 17	NNW 17	NNW 17	NNW 15	N 9	NNW 9	NNW 7		
30	NNW 15	N 7	N 9	NE 7	NE 7	NE 15	ENE 6	ENE 9	ENE 9	N 7	NNE 9	N 11	N 15	ENE 13	NE 11	E 13	NE 17	NE 9	NE 13	NE 11	ESE 9	S 6	C	C		
31																										

On indique un vent d'ouest par la lettre 'W'.

*Indicates later occurrences of same speed
*Indique des données postérieures de la même vitesse.

Environment Canada / Environnement Canada
Atmospheric Environment Service / Service de l'environnement atmosphérique

MONTHLY METEOROLOGICAL SUMMARY
SOMMAIRE MÉTÉOROLOGIQUE MENSUEL

MONTH/MOIS JULY / JUILLET 1984

AT/À LONDON A ONTARIO

LAT: 43 ° 02 'N LONG: 81 ° 09 'W ELEVATION: ALTITUDE: 278 METRES (ASL) MÈTRES (NMM) STANDARD TIME USED: HEURE NORMALE UTILISÉE: Eastern

DATE	TEMPERATURE TEMPÉRATURE			DEGREE-DAYS DEGRÉS-JOURS		REL. HUMIDITY HUMIDITÉ REL.		THUNDERSTORM ORAGE	PRECIPITATION PRÉCIPITATIONS			SNOW ON GROUND NEIGE AU SOL	WIND VENT			BRIGHT SUNSHINE INSOLATION EFFECTIVE
	MAXIMUM MAXIMALE °C	MINIMUM MINIMALE °C	MEAN MOYENNE °C	HEATING DE CHAUFFE BASE 18.0°C	GROWING DE CROISSANCE BASE 5.0°C	MAXIMUM MAXIMALE %	MINIMUM MINIMALE %		RAINFALL PLUIE (HAUTEUR) mm	SNOWFALL NEIGE (HAUTEUR) cm	TOTAL PRECIP. PRÉCIP. TOTALE mm	cm	AVERAGE SPEED VITESSE MOYENNE km/h	PREVAILING DIRECTION DIRECTION DOMINANTE	MAXIMUM SPEED AND DIRECTION VITESSE MAXIMALE ET DIRECTION km/h	HOURS HEURES
1	26.3	14.3	20.3		15.3	94	51						8.5	SVRL	WNW 19	10.1
2	27.1	15.3	21.2		16.2	88	44						5.8	NW	SSW 19	8.1
3	28.0	15.0	21.5		16.5	100	45						12.9	SSW	W 20*	11.4
4	26.0	18.0	22.0		17.0	100	69		13.9		13.9		6.4	W	SSW 19*	2.8
5	24.6	15.2	19.9		14.9	100	74	1	25.3		25.3		6.0	SVRL	SW 19*	0.6
6	19.5	11.3	15.4	2.6	10.4	100	76	1	40.4		40.4		12.3	S	S 19*	2.1
7	17.3	9.0	13.2	4.8	8.2	100	55		TR		TR		16.5	W	WNW 33	8.5
8	21.9	7.5	14.7	3.3	9.7	93	43						5.4	SVRL	NW 15	13.1
9	23.4	14.1	18.8		13.8	94	60						15.2	S	SSW 28	7.5
10	27.3	18.5	22.9		17.9	100	74	1	3.6		3.6		9.1	W	W 19	1.8
11	23.1	16.7	19.9		14.9	94	73		1.6		1.6		13.0	NW	WSW 22	2.6
12	27.6	15.2	21.4		16.4	100	51						8.4	W	NW 20	12.4
13	29.0	14.9	22.0		17.0	100	48						7.1	SW	SSW 19	13.0
14	30.3	18.6	24.5		19.5	83	46						11.9	WSW	WSW 19*	12.7
15	28.3	18.7	23.5		18.5	94	58	1	6.2		6.2		15.7	SW	SW 33*	1.4
16	22.4	14.8	18.6		13.6	94	57	1					12.8	WNW	WNW 26	10.6
17	23.2	12.6	17.9	0.1	12.9	100	64	1	5.1		5.1		11.3	SSW	SW 30	4.1
18	20.2	12.4	16.3	1.7	11.3	100	68	1	8.2		8.2		11.8	WNW	WNW 28	7.2
19	24.7	11.1	17.9	0.1	12.9	94	47						12.0	W	S 28	13.1
20	26.3	16.4	21.4		16.4	88	54	1	TR		TR		14.2	SSW	SSW 24	6.5
21	27.3	16.1	21.7		16.7	100	58						4.6	SVRL	NW 11	6.8
22	28.7	15.4	22.1		17.1	94	44						7.1	S	S 15	12.5
23	30.4	18.2	24.3		19.3	94	49		0.8		0.8		17.9	SW	SW 30*	9.5
24	25.4	13.3	19.4		14.4	82	41						15.5	NW	NW 26*	10.2
25	24.8	12.3	18.6		13.6	88	41						6.2	NW	NW 15*	13.1
26	21.7	11.0	16.4	1.6	11.4	94	57		1.2		1.2		4.6	SE	SE 13*	0.7
27	23.5	13.8	18.7		13.7	94	50		TR		TR		9.1	N	N 17*	9.1
28	24.7	10.6	17.7	0.3	12.7	87	38						6.4	N	NNE 11*	11.8
29	25.3	12.3	18.8		13.8	94	44						5.3	NW	WNW 17	12.5
30	26.2	9.9	18.1		13.1	100	42						4.8	W	SSW 17	13.4
31	27.2	11.5	19.4		14.4	94	48						7.1	SVRL	WSW 15*	9.7
MEAN MOYENNE	25.2	14.0	19.6	TOTAL 14.5	TOTAL 453.5	95	54	TOTAL 8	TOTAL 106.3	TOTAL	TOTAL 106.3		9.8	PREVAILING SW/W DOMINANTE	MAXIMUM SW/WNW33	TOTAL 258.9
NORMAL NORMALE	26.4	14.2	20.3	13.2	474.8			2	72.4		72.4		11.8	SSW		274.4

DEGREE-DAY SUMMARY – SOMMAIRE DE DEGRÉS-JOURS

BELOW 18°C AU-DESSOUS DE 18°C	THIS YEAR ANNÉE EN COURS	PREVIOUS YEAR ANNÉE PRÉCÉDENTE	NORMAL NORMALE	ABOVE 5°C AU-DESSUS DE 5°C	THIS YEAR ANNÉE EN COURS	PREVIOUS YEAR ANNÉE PRÉCÉDENTE	NORMAL NORMALE
TOTAL FOR MONTH TOTAL DU MOIS	14.5	9.6	13.2	TOTAL FOR MONTH TOTAL DU MOIS	453.5	524.9	474.8
ACCUMULATED SINCE JULY 1 ACCUMULÉE DEPUIS LE 1er JUILLET	14.5	9.6	13.2	ACCUMULATED SINCE APRIL 1 ACCUMULÉE DEPUIS LE 1er AVRIL	1134.2	1140.4	1376.0

DAYS WITH TOTAL PRECIPITATION: JOURS AVEC PRÉCIPITATIONS TOTALES: mm

0.2 OR MORE – OU PLUS	1.0 OR MORE – OU PLUS	2.0 OR MORE – OU PLUS	10.0 OR MORE – OU PLUS	50.0 OR MORE – OU PLUS
10	9	7	3	0

DAYS WITH SNOWFALL: JOURS AVEC CHUTE DE NEIGE: cm

0.2 OR MORE – OU PLUS	1.0 OR MORE – OU PLUS	2.0 OR MORE – OU PLUS	10.0 OR MORE – OU PLUS	50.0 OR MORE – OU PLUS
0	0	0	0	0

UDC 551.506.1 (713.26) * Denotes more than one occurrence of the same speed but not necessarily from the same direction.

TR = Trace SVRL = Several

Subscription Price: $1.06 monthly; $10.60 per calendar year (January to December)
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Canada

DRY-BULB TEMPERATURE SUMMARY* LONDON, A ONTARIO
SOMMAIRE DES TEMPÉRATURES DU THERMOMÈTRE SEC*

MONTH JULY
MOIS JUILLET

1984

Date	00	01	02	03	04	05	06	07	08	09	10	11	12	13	14	15	16	17	18	19	20	21	22	23
1	168	168	159	152	151	144	157	171	201	220	227	237	243	251	257	254	253	240	238	226	215	200	196	176
2	155	157	156	161	161	162	170	192	211	221	227	245	246	248	260	270	265	260	241	223	213	199	197	189
3	180	153	166	168	157	150	170	196	216	229	245	256	263	260	278	269	268	266	257	247	237	213	214	222
4	216	222	210	203	198	204	209	213	218	221	234	245	250	255	254	236	219	223	197	193	198	196	194	191
5	184	184	170	172	167	156	164	172	182	193	213	235	242	233	242	242	178	169	170	178	175	170	158	161
6	160	160	168	165	182	183	185	194	160	161	170	175	186	189	165	172	185	192	189	177	164	150	144	131
7	120	115	110	107	93	94	100	108	118	118	133	136	140	136	166	168	164	170	172	168	150	126	110	106
8	100	94	92	85	82	79	89	118	157	178	182	195	198	208	211	213	210	212	211	209	180	159	148	143
9	147	142	150	142	148	154	161	170	193	206	203	211	224	226	223	232	224	224	215	211	196	191	198	194
10	187	188	191	188	186	188	191	199	211	214	234	242	244	262	262	256	269	269	261	255	242	226	213	220
11	218	213	222	220	213	208	219	217	214	218	220	188	190	198	198	200	206	210	215	213	192	180	176	168
12	170	167	162	156	154	156	163	180	202	218	238	253	260	269	262	275	271	276	265	249	241	210	201	191
13	180	173	171	165	156	149	163	186	221	242	266	272	280	281	277	284	271	273	271	254	222	201	195	192
14	200	191	199	194	202	198	206	227	251	268	275	281	290	291	296	296	292	286	279	265	249	234	222	213
15	214	219	216	218	222	213	222	227	242	252	258	273	281	278	260	258	261	248	259	250	217	210	209	214
16	197	187	184	186	180	174	178	188	201	214	214	217	220	217	210	215	220	223	221	213	200	186	184	176
17	160	148	146	137	135	127	143	174	203	219	221	220	216	216	212	223	224	226	185	178	172	162	162	161
18	158	147	144	140	134	127	136	155	167	179	184	151	160	180	195	190	184	188	178	175	159	146	139	137
19	132	129	126	116	120	121	137	161	180	202	213	221	230	233	238	246	242	232	222	213	197	181	168	162
20	170	173	173	178	174	166	171	194	209	225	235	242	252	248	248	246	255	257	247	236	214	208	209	210
21	195	191	180	174	170	164	172	183	192	196	209	220	245	251	254	262	270	267	247	240	229	216	209	200
22	187	170	166	168	164	154	163	185	212	230	251	258	269	274	275	282	282	274	266	242	220	204	202	192
23	189	181	190	201	209	204	208	218	231	255	270	280	289	296	300	301	304	292	278	274	268	264	262	239
24	231	210	196	182	179	176	172	185	193	199	218	236	245	247	249	245	236	227	217	206	186	168	154	143
25	137	134	134	127	133	126	126	151	183	197	209	225	228	229	244	246	237	236	231	219	198	180	163	144
26	132	130	132	125	117	113	123	153	160	182	189	209	215	216	213	213	204	194	194	186	176	172	165	160
27	157	157	150	148	142	138	143	158	176	191	203	201	206	219	211	222	225	234	226	221	194	166	159	153
28	149	146	137	124	118	114	114	139	165	199	215	217	229	233	237	236	246	245	235	214	204	185	176	157
29	154	143	132	129	124	125	131	158	191	211	226	237	236	241	246	246	248	242	239	220	199	178	164	147
30	134	125	120	104	103	103	112	148	200	218	224	243	241	255	257	256	257	259	241	230	204	182	172	150
31	148	136	130	126	115	117	121	148	195	235	253	256	267	269	266	261	260	258	251	235	206	199	199	199

*Temperatures in tenths of degrees Celsius – Températures en dixième de degrés Celsius

COMPARATIVE RECORDS
RELEVÉS COMPARATIFS

LONDON (A) ONTARIO

MONTH / MOIS: **JULY / JUILLET** 1984

Temperature/Température – °Celsius
Precipitation/Précipitation – Millimetres (mm)
Rainfall/Hauteur de pluie – Millimetres (mm)
Snowfall/Hauteur de neige – Centimetres (cm)
Wind speed/Vitesse du vent – Kilometres per hour / par heure (km/h)
Station pressure/Pression à la station – Kilopascals (kPa)

	THIS MONTH CE MOIS-CI		PREVIOUS YEAR ANNÉE PRÉCÉDENTE		NORMAL NORMALE	RECORD FOR THE MONTH RECORD POUR LE MOIS						YEARS OF RECORD ANNÉES D'OBSERVATIONS
						HIGHEST MAXIMUM ABSOLU			LOWEST MINIMUM ABSOLU			
	VALUE RELEVÉ	DATE	VALUE RELEVÉ	DATE		VALUE RELEVÉ	DAY JOUR	YEAR ANNÉE	VALUE RELEVÉ	DAY JOUR	YEAR ANNÉE	
HIGHEST TEMPERATURE TEMPÉRATURE LA PLUS ÉLEVÉE	30.4	23	33.3	15		38.9	9	1936	29.4	1,23	1967	111
LOWEST TEMPERATURE TEMPÉRATURE LA PLUS BASSE	7.5	8	7.9	7		11.1	13	1955	1.7	3	1907	111
MEAN MONTHLY TEMPERATURE TEMPÉRATURE MENSUELLE MOYENNE	19.6		21.9		20.3	24.9		1921	17.7		1965	68
TOTAL MONTHLY RAINFALL HAUTEUR TOTALE MENSUELLE DE PLUIE	106.3		85.5		72.4	259.6		1932	12.2		1936	64
TOTAL MONTHLY SNOWFALL HAUTEUR TOTALE MENSUELLE DE NEIGE					0.0							
TOTAL MONTHLY PRECIPITATION PRÉCIPITATION TOTALE MENSUELLE	106.3		85.5		72.4	259.6		1932	12.2		1936	64
NO OF DAYS WITH MEASURABLE PRECIPITATION NOMBRE DE JOURS AVEC PRÉCIPITATION MESURABLE	9		10		10	16		1950	3		1966	64
GREATEST RAINFALL IN ONE DAY HAUTEUR DE PLUIE MAXIMALE EN UNE JOURNÉE	40.4	6	44.9	29		63.0	5	1942				44
GREATEST SNOWFALL IN ONE DAY HAUTEUR DE NEIGE MAXIMALE EN UNE JOURNÉE												
GREATEST PRECIPITATION IN ONE DAY PRÉCIPITATION MAXIMALE EN UNE JOURNÉE	40.4	6	44.9	29		63.0	5	1942				44
MAXIMUM RAINFALL RECORDED IN: HAUTEUR DE PLUIE MAXIMALE ENREGISTRÉE EN:												
5 MINUTES	6.1	5	12.5	28		18.5	23	1976				27
10 MINUTES	9.7	5	14.4	28		26.9	23	1976				27
15 MINUTES	11.9	5	18.3	31		27.7	23	1976				27
30 MINUTES	17.4	5	21.3	28		29.2	23	1976				27
60 MINUTES	22.8	6	24.8	28		30.5	23	1976				27
24 CONSECUTIVE HOURS HEURES CONSECUTIVES	60.3	5,6	44.9	29		61.7	27–28	1980				11
MEAN WIND SPEED (km/h) VITESSE MOYENNE DU VENT (km/h)	9.8		11.6		11.8	13.7		1963	8.5		1980	27
MAXIMUM SPEED (1 min.) (km/h) VITESSE MAXIMALE (1 min.) (km/h)	WNW33*	7	SSW 39	4		WSW 48	1,31	1977	ENE 30	1	1981	27
MAXIMUM GUST SPEED (km/h) POINTE DU VENT MAXIMALE (km/h)	NW 52	15	W 63	4		SSW 98	18	1972	WSW 44	6	1966	11
TOTAL HOURS OF SUNSHINE TOTAL DES HEURES INSOLATION	258.9		273.5		274.4	352.6		1955	189.6		1947	49
MEAN STATION PRESSURE (kPa) PRESSION MOYENNE À LA STATION (kPa)	98.29		98.35		98.28	98.53		1968	98.10		1976	27
GREATEST STATION PRESSURE (kPa) PRESSION MAXIMALE À LA STATION (kPa)	99.39	29	99.52	7		99.52	7	1983				27
LEAST STATION PRESSURE (kPa) PRESSION MINIMALE À LA STATION (kPa)	97.17	11	97.34	24					96.32	14	1963	27

CLIMATOLOGICAL DATA FOR THE PAST 10 YEARS
DONNÉES CLIMATOLOGIQUES POUR LES DERNIÈRE ANNÉES

YEAR ANNÉE	MAXIMUM TEMP. TEMP. MAXIMALE	MINIMUM TEMP. TEMP. MINIMALE	MEAN TEMP. TEMP. MOYENNE	RAINFALL HAUTEUR DE PLUIE	SNOWFALL HAUTEUR DE NEIGE	TOTAL PRECIP. PRECIP. TOTALE	MEAN WINDSPEED VITESSE MOYENNE DES VENTS	MAXIMUM WINDSPEED VITESSE MAXIMALE DES VENTS	HOURS SUNSHINE HEURES INSOLATION	HEATING DEGREE-DAYS DEGRÉS-JOURS DE CHAUFFE	GROWING DEGREE-DAYS DEGRÉS-JOURS DE CROISSANCE		
1975	34.3	6.8	20.4	38.9		38.9	11.3	WSW 34	300.2	12.8	477.9		
1976	29.5	8.6	19.4	179.6		179.6	13.0	NNW 46	242.5	12.1	447.1		
1977	33.9	7.3	21.0	77.9		77.9	12.3	WSW 48	259.3	7.6	496.6		
1978	33.6	6.0	19.4	17.1		17.1	12.3	S 32	240.8	20.4	446.7		
1979	30.5	7.4	19.6	32.6		32.6	8.7	NW 32	246.2	18.6	453.1		
1980	31.2	6.7	20.2	139.7		139.7	8.5	W 39	248.2	7.2	471.1		
1981	32.0	8.1	20.5	79.0		79.0	9.9	ENE 30	266.9	10.0	479.4		
1982	30.3	9.0	20.8	48.5		48.5	10.2	SSW 37	291.2	5.6	498.0		
1983	33.3	7.9	21.9	85.5		85.5	11.6	SSW 39	273.5	9.6	524.9		
1984	30.4	7.5	19.6	106.3		106.3	9.8	WNW 33	258.9	14.5	453.5		

WIND SUMMARY (Kilometres per hour)
SOMMAIRE DES VENTS (Kilomètres par heure) LONDON AIRPORT

MONTH / MOIS JULY/JUILLET 1984

Date	00	01	02	03	04	05	06	07	08	09	10	11	12	13	14	15	16	17	18	19	20	21	22	23	Peak Gust Rafale maximum	Hour Heure
1	NNW	NNW	N	NNE	N	NNE	N	C	ENE	NE	NNE	NE	NE	C	C	NW	WNW	WNW	NW	NW	WNW	WNW	NNW	NW		
	9	9	9	6	7	9	7		7	11	11	15	15			15	19	15	15	7	9	7	6	6		
2	C	C	NW	NW	NW	C	ESE	C	C	C	C	NW	C	NW	WNW	WNW	SW	WSW	SSW	S	SW	SSW	SW	SSW		
			6	9	9		7					7		4	7	7	9	6	19	11	11	7	6	7		
3	SW	SW	SE	SSE	SSE	ESE	S	SW	W	W	W	W	W	W	WSW	SW	SSW	SSW	SSW	SSW	SSW	SSW	SSW	SSW	WSW 37	1428
	7	7	6	4	4	6	6	9	15	13	15	17	20	20	19	19	20	20	19	15	11	11	15	11		
4	SSW	W	SW	SW	C	SW	WSW	W	W	WSW	W	W	WSW	W	WSW	WSW	SSW	SSW	SW	C	C	C	C	C	SSW 32	1522
	7	6	6	6		9	15	11	7	9	7	7	15	13	11	7	19	9	6							
5	C	C	C	C	C	C	W	WNW	W	C	C	S	SW	SW	S	SW	NNW	NE	SE	SE	C	SSE	C	SE	W 41	1538
							6	4	4			6	11	19	13	19	17	7	7	6		7		9		
6	SSE	S	SSE	SSE	S	SSW	S	S	N	S	S	SSE	WSW	S	W	SSW	S	SSW	SSW	W	NW	NW	NW	WNW	SSW 46	0712
	9	11	11	11	17	17	13	19	15	4	13	11	6	19	13	7	13	9	13	7	15	11	15	13		
7	WNW	W	SSW	W	WSW	WSW	WSW	W	W	W	W	W	NNW	W	NW	NW	WNW	WNW	NW	NW	C	C	C	C	NW 46	1505
	13	17	19	15	11	15	19	22	13	22	19	28	33	22	28	26	28	26	17	11						
8	NE	ENE	C	C	C	C	C	C	C	N	NW	NW	WNW	W	NW	NNW	NW	WNW	C	C	S	S	S	S		
	6	6								7	9	7	9	13	15	13	7	6			11	7	6	6		
9	SSW	SSE	C	ESE	SE	SSE	SSE	SSE	S	SSW	S	SSW	SSW	SW	SSE	S	S	SSW	SSW	SSW	S	S	SW	SW	SSW 43	1555
	7	6		6	4	4	7	11	15	17	17	19	22	20	20	24	22	28	24	19	19	20	15	11		
10	S	SSW	SSE	SSW	S	SE	SSE	SW	W	WSW	SW	SW	WSW	W	W	NW	NW	W	NW	N	NE	C	C	E	W 32	1323
	15	6	11	6	6	6	7	6	15	7	15	17	13	13	19	11	11	7	7	6	6			9		
11	SE	SE	WNW	W	WSW	WSW	WSW	WSW	W	WSW	WSW	NW	W	NW	WNW	NW	NW	WNW	NW	NW	W	W	NW	WNW	NW 35	1040
	13	11	19	17	11	7	9	15	17	19	22	9	15	17	15	15	17	19	19	13	6	6	4	4		
12	WNW	WNW	WNW	NW	W	W	WNW	W	W	W	W	W	WSW	WSW	WSW	NW	NW	WNW	NW	NNW	C	C	C	C	WSW 33	1530
	6	6	6	6	6	7	7	7	9	15	13	11	7	19	19	19	20	11	9	4						
13	C	C	C	C	C	C	C	C	W	WSW	SW	WNW	WNW	NW	WNW	WSW	SW	SSW	SW	SSW	S	C	SSW	SW		
									7	11	11	17	11	9	7	15	13	19	13	11	6		7	6		
14	SW	SW	SW	WSW	WSW	WSW	C	C	WSW	WSW	W	WSW	W	WSW	SW	SW	SW	SSW	SSW	SW	SSW	SSW	SSW	S		
	7	11	7	7	15	7			6	9	15	17	17	19	17	17	19	19	19	15	13	9	6	9		
15	SSW	SSW	SSW	SW	SW	SW	SW	SW	SSW	SSW	SW	SW	SW	SSW	SSW	SSW	SW	SW	SW	SW	WSW	C	C	W	NW 52	1936
	13	13	11	11	11	11	7	9	11	15	19	17	24	24	24	24	33	33	24	22	11			11		
16	WSW	WSW	W	W	WSW	WSW	W	WNW	WNW	WNW	WNW	WNW	W	WNW	WNW	WNW	WNW	WNW	WNW	W	WSW	C	C	C	W 37	1132
	11	11	9	11	11	9	9	15	17	22	20	22	24	15	22	26	17	19	17	7	4					
17	C	C	C	C	C	C	C	C	SSW	SSW	SW	SSW	SSW	SSW	SSW	SW	SW	SSW	W	WNW	SW	SW	WSW	S	WSW 44	2000
									9	19	22	19	19	15	26	24	22	19	13	7	30	9	4	7		
18	SW	SW	WSW	W	W	WNW	WNW	W	W	WSW	WNW	WSW	WSW	NW	WNW	NW	WNW	NW	NW	NW	NW	WNW	W	WNW	NW 35	1455
	6	4	7	7	7	4	6	7	11	9	6	22	13	11	28	22	22	22	17	17	11	7	6	7		
19	W	W	W	W	W	W	WSW	W	W	W	W	W	W	W	WNW	WSW	SW	SSW	S	SSW	SW	SW	S	SSW	SW 35	1810
	9	7	4	4	7	7	7	11	9	11	15	11	15	15	9	15	17	22	28	22	13	11	9	7		
20	SSW	SW	SW	SSW	SW	SW	SSW	SSW	SSW	S	SSW	SW	SSW	SW	SSW	SSW	SSW	SSW	SSW	SW	SSW	SSW	SW	WNW	SW 32	1144
	11	11	11	13	11	7	9	9	13	17	17	17	24	22	17	19	17	24	17	15	11	11	13	11		
21	NE	WNW	C	E	C	SSW	W	C	W	NNW	NW	SE	C	C	NE	NNW	NW	NW	SE	SSW	SW	WSW	WNW	NNW		
	4	4		6		4	4		4	7	4	4			4	7	11	9	6	9	6	4	4	7		
22	N	NE	C	ESE	NE	C	C	C	S	S	S	S	SSW	SSW	S	SE	S	S	SSW	S	S	SSE	SSE	S		
	7	4		4	4				4	6	9	11	11	6	9	11	15	13	11	11	9	7	11	7		
23	S	S	S	SSW	SW	SW	SW	SW	SW	SW	SW	SW	SW	SW	WSW	WSW	WSW	SW	SW	SW	WSW	WSW	WSW	WNW	SW 41	1322
	7	7	7	11	15	13	13	15	19	24	24	30	24	30	22	22	24	26	19	17	9	11	15	13		
24	NW	NNW	NW	WNW	NW	NW	NW	NW	NW	NW	WNW	NW	NW	WNW	WNW	NW	NW	NW	NW	NNW	NNW	NNW	NNW	N	NNW 41	1712
	19	17	17	11	13	12	9	13	17	15	13	11	17	19	22	26	22	26	26	22	11	7	9	9		
25	NNW	NNW	NNW	C	C	NNW	C	NE	NE	SE	C	C	NNW	NW	NW	NW	NW	NW	NW	NW	NW	NW	NNW	C		
	9	7	7			3		7	13	3			9	9	13	13	15	15	13	9	3	5	5			
26	C	C	C	C	C	C	ENE	ENE	C	C	C	SE	SE	SSE	SE	ESE	ESE	SE	SE	SSE	SW	WNW	W	C		
							4	4				9	9	6	13	11	13	11	7	4	4	4	5			
27	N	N	N	N	N	NNW	N	NNE	NE	NE	NE	N	N	N	E	ENE	NNW	E	NNW	NNE	NNE	NNE	NNE	NNE		
	7	9	9	11	11	9	11	7	9	11	11	11	15	17	17	7	6	7	4	7	7	9	7	6		
28	C	N	NNE	N	C	N	N	N	NE	NE	ENE	NNE	E	NW	NW	N	NNE	N	NNE	NW	N	NNE	N	NNE		
		6	7	7		7	4	7	4	7	6	11	6	11	7	6	9	9	6	4	7	7	4	11		
29	C	NNW	C	C	C	ENE	E	ENE	ESE	SE	SE	E	SW	NW	NW	NW	NE	NNW	WNW	WNW	NW	NW	NW	NNW		
		7				6	9	4	9	7	6	4	4	6	4	4	6	4	17	13	6	4	4	4		
30	C	C	C	C	C	C	C	C	W	WNW	W	W	WNW	NNW	W	NW	NW	NW	SSW	SSW	SSW	C	C	C		
									4	6	13	11	9	7	11	4	9	7	17	9	9					
31	C	C	C	C	C	C	C	C	SW	SSW	WSW	WSW	W	SW	WSW	SSW	SSW	SW	SSW	S	S	S	SSW	SW	SW 26	1430
									4	11	13	13	11	11	15	15	15	15	13	6	6	6	6	7		

On indique un vent d'ouest par la lettre 'W'.

*Indicates later occurrences of same speed
*Indique des données postérieures de la même vitesse.

Environment Canada / Environnement Canada
Atmospheric Environment Service / Service de l'environnement atmosphérique

MONTHLY METEOROLOGICAL SUMMARY
SOMMAIRE MÉTÉOROLOGIQUE MENSUEL

MONTH/MOIS June / Juin 19 84

AT/À MOUNT FOREST , ONTARIO

LAT: 43 • 59 'N LONG 80 • 45 'W ELEVATION: ALTITUDE: 415 METRES (ASL) MÈTRES (NMM) STANDARD TIME USED: HEURE NORMALE UTILISÉE: Eastern

DATE	TEMPERATURE TEMPÉRATURE			DEGREE-DAYS DEGRÉS-JOURS		REL. HUMIDITY HUMIDITÉ REL.		THUNDERSTORM ORAGE	PRECIPITATION PRÉCIPITATIONS			SNOW ON GROUND NEIGE AU SOL	WIND VENT			BRIGHT SUNSHINE INSOLATION EFFECTIVE
	MAXIMUM MAXIMALE °C	MINIMUM MINIMALE °C	MEAN MOYENNE °C	HEATING DE CHAUFFE BASE 18.0°C	GROWING DE CROISSANCE BASE 5.0°C	MAXIMUM MAXIMALE %	MINIMUM MINIMALE %		RAINFALL PLUIE (HAUTEUR) mm	SNOWFALL NEIGE (HAUTEUR) cm	TOTAL PRECIP. PRÉCIP. TOTALE mm	cm	AVERAGE SPEED VITESSE MOYENNE km/h	PREVAILING DIRECTION DIRECTION DOMINANTE	MAXIMUM SPEED AND DIRECTION VITESSE MAXIMALE ET DIRECTION km/h	HOURS HEURES
1	20.4	3.8	12.1	5.9	7.1	M	M						5.1	N	N 20	12.5
2	21.0	7.0	14.0	4.0	9.0				6.8		6.8		5.1	E	S 13	M
3	19.0	7.0	13.0	5.0	3.0				0.2		0.2		12.7	NW	NW 35	M
4	24.0	10.0	17.0	1.0	12.0								9.3	W	W 32	13.3
5	23.2	13.0	18.1		13.1				1.8		1.8		12.6	S	SW 19	8.7
6	28.0	17.0	22.5		17.5								13.4	S	W 35	10.0
7	27.0	18.4	22.7		17.7								14.7	S	SW 41	11.9
8	26.0	19.5	22.8		17.8			1	2.6		2.6		20.7	SW	SW 44	6.3
9	25.0	16.0	20.5		15.5				2.0		2.0		11.1	W	NW 19	M
10	28.0	17.0	22.5		17.5			1	3.0		3.0		15.3	SW	SW 22	M
11	16.7	7.7	12.2	5.8	7.2				TR		TR		12.0	NW	NW 37	6.4
12	25.3	10.0	17.7	0.3	12.7			1	0.8		0.8		13.4	S	S 33	13.4
13	27.3	16.3	21.8		16.8				0.2		0.2		6.3	NW	W 13	10.0
14	13.4	5.0	9.2	8.8	4.2				0.2		0.2		12.5	NW	NW 32	0.8
15	17.0	4.0	10.5	7.5	5.5								5.6	N	SE 13	13.3
16	23.0	8.0	15.5	2.5	10.5								9.3	SE	SE 28	M
17	19.0	12.0	15.5	2.5	10.5			1	44.8		44.8		10.3	S	S 33	0.0
18	25.4	15.4	20.4		15.4			1	12.4		12.4		11.6	W	W 17	6.8
19	22.4	10.4	16.4	1.6	11.4								10.3	NW	NW 20	12.3
20	21.0	8.8	14.9	3.1	9.9								4.9	E	E 11	12.1
21	23.2	8.8	16.0	2.0	11.0								2.4	E	NE 11	13.4
22	23.5	10.6	17.1	0.9	12.1								7.7	SE	SE 11	13.1
23	25.0	12.3	18.7		13.7								12.3	SE	SE 19	12.3
24	18.1	10.0	14.1	3.9	9.1			1	29.4		29.4		11.0	W	W 37	5.8
25	16.3	7.2	11.8	6.2	6.8								6.6	W	NW 11	12.0
26	22.0	4.5	13.3	4.7	8.3								4.3	S	S 11	13.5
27	21.4	14.0	17.7	0.3	12.7			1	11.6		11.6		13.7	S	SW 39	3.0
28	20.5	9.0	14.8	3.2	9.8								10.3	W	W 19	12.9
29	14.8	6.3	10.6	7.4	5.6								4.2	N	NE 13	3.0
30	22.0	10.0	16.0	2.0	11.0								5.2	NE	NE 9	10.2
31																
MEAN MOYENNE	22.0	10.6	16.3	TOTAL 78.6	TOTAL 334.4			TOTAL 7	TOTAL 115.8	TOTAL	TOTAL 115.8		9.8	PREVAILING S DOMINANTE	MAXIMUM SW 44	TOTAL M
NORMAL NORMALE	22.0	9.8	15.9	86.7	326.7				79.4		79.4		11.6	SSW		261.

DEGREE-DAY SUMMARY – SOMMAIRE DE DEGRÉS-JOURS

BELOW 18°C AU-DESSOUS DE 18°C	THIS YEAR ANNÉE EN COURS	PREVIOUS YEAR ANNÉE PRÉCÉDENTE	NORMAL NORMALE	ABOVE 5°C AU-DESSUS DE 5°C	THIS YEAR ANNÉE EN COURS	PREVIOUS YEAR ANNÉE PRÉCÉDENTE	NORMAL NORMALE
TOTAL FOR MONTH TOTAL DU MOIS	79	76	87	TOTAL FOR MONTH TOTAL DU MOIS	334	149	327
ACCUMULATED SINCE JULY 1 ACCUMULÉE DEPUIS LE 1er JUILLET	4812	4389	4696	ACCUMULATED SINCE APRIL 1 ACCUMULÉE DEPUIS LE 1er AVRIL	511	397	569

DAYS WITH TOTAL PRECIPITATION: JOURS AVEC PRÉCIPITATIONS TOTALES: mm

0.2 OR MORE – OU PLUS	1.0 OR MORE – OU PLUS	2.0 OR MORE – OU PLUS	10.0 OR MORE – OU PLUS	50.0 OR MORE – OU PLUS
13	9	7	4	0

DAYS WITH SNOWFALL: JOURS AVEC CHÛTE DE NEIGE: cm

0.2 OR MORE – OU PLUS	1.0 OR MORE – OU PLUS	2.0 OR MORE – OU PLUS	10.0 OR MORE – OU PLUS	50 OR MO – OU PL
0	0	0	0	0

UDC 551.506.1(713.18)

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Canad

COMPARATIVE RECORDS
RELEVÉS COMPARATIFS

MOUNT FOREST , ONTARIO

MONTH
MOIS

June / Juin

19 84

Temperature/Température – °Celsius
Precipitation/Précipitation – Millimetres (mm)
Rainfall/Hauteur de pluie – Millimetres (mm)
Snowfall/Hauteur de neige – Centimetres (cm)
Wind speed/Vitesse du vent – Kilometres per hour/par heure (km/h)
Station pressure/Pression à la station – Kilopascals (kPa)

	THIS MONTH CE MOIS-CI		PREVIOUS YEAR ANNÉE PRÉCÉDENTE		NORMAL NORMALE	RECORD FOR THE MONTH RECORD POUR LE MOIS						YEARS OF RECORD ANNÉES D'OBSERVATIONS
						HIGHEST MAXIMUM ABSOLU			LOWEST MINIMUM ABSOLU			
	VALUE RELEVÉ	DATE	VALUE RELEVÉ	DATE		VALUE RELEVÉ	DAY JOUR	YEAR ANNÉE	VALUE RELEVÉ	DAY JOUR	YEAR ANNÉE	
HIGHEST TEMPERATURE TEMPÉRATURE LA PLUS ÉLEVÉE	28.0	6/10	31.0	26		35.0	29	1933	6.1		1945	63
LOWEST TEMPERATURE TEMPÉRATURE LA PLUS BASSE	3.8	1	1.0	8		23.3	9	1933	- 2.2	3	1928	62
MEAN MONTHLY TEMPERATURE TEMPÉRATURE MENSUELLE MOYENNE	16.3		16.6		15.9	20.6		1919	12.9		1926	60
TOTAL MONTHLY RAINFALL HAUTEUR TOTALE MENSUELLE DE PLUIE	115.8		32.0		79.4	210.3		1967	14.5		1965	62
TOTAL MONTHLY SNOWFALL HAUTEUR TOTALE MENSUELLE DE NEIGE												
TOTAL MONTHLY PRECIPITATION PRÉCIPITATION TOTALE MENSUELLE	115.8		32.0		79.4	210.3		1967	14.5		1965	62
NO OF DAYS WITH MEASURABLE PRECIPITATION NOMBRE DE JOURS AVEC PRÉCIPITATION MESURABLE	13		9			19		1967	6		1965	22
GREATEST RAINFALL IN ONE DAY HAUTEUR DE PLUIE MAXIMALE EN UNE JOURNÉE	44.8	17	14.0	27		47.4	28	1977				40
GREATEST SNOWFALL IN ONE DAY HAUTEUR DE NEIGE MAXIMALE EN UNE JOURNÉE												
GREATEST PRECIPITATION IN ONE DAY PRÉCIPITATION MAXIMALE EN UNE JOURNÉE	44.8	17	14.0	27		47.4	28	1977				40
MAXIMUM RAINFALL RECORDED IN: HAUTEUR DE PLUIE MAXIMALE ENREGISTRÉE EN:												
5 MINUTES	5.2	17	M									
10 MINUTES	9.4	17	M									
15 MINUTES	11.2	17	M									
30 MINUTES	12.0	17	M									
60 MINUTES	13.6	23	M									
24 CONSECUTIVE HOURS HEURES CONSECUTIVES	51.2	17	M									
MEAN WIND SPEED (km/h) VITESSE MOYENNE DU VENT (km/h)	9.8		8.6		11.6	14.8		1966	8.4		1971	22
MAXIMUM SPEED (1 min.) (km/h) VITESSE MAXIMALE (1 min.) (km/h)	33	8	30	24		55	10	1963	29	15	1975	22
MAXIMUM GUST SPEED (km/h) POINTE DU VENT MAXIMALE (km/h)	44	8	44	9		96	28	1977	44	8/9	83/84	22
TOTAL HOURS OF SUNSHINE TOTAL DES HEURES INSOLATION	M		310.7		261.8	319.5		1966	180.4		1969	22
MEAN STATION PRESSURE (kPa) PRESSION MOYENNE À LA STATION (kPa)	96.6		96.8		96.7							
GREATEST STATION PRESSURE (kPa) PRESSION MAXIMALE À LA STATION (kPa)	97.7	15	97.6	22								
LEAST STATION PRESSURE (kPa) PRESSION MINIMALE À LA STATION (kPa)	95.7	24	95.7	7								

CLIMATOLOGICAL DATA FOR THE PAST 10 YEARS
DONNÉES CLIMATOLOGIQUES POUR LES DERNIÈRE ANNÉES

YEAR ANNÉE	MAXIMUM TEMP. TEMP. MAXIMALE	MINIMUM TEMP. TEMP. MINIMALE	MEAN TEMP. TEMP. MOYENNE	RAINFALL HAUTEUR DE PLUIE	SNOWFALL HAUTEUR DE NEIGE	TOTAL PRECIP. PRECIP. TOTALE	MEAN WINDSPEED VITESSE MOYENNE DES VENTS	MAXIMUM WINDSPEED VITESSE MAXIMALE DES VENTS	HOURS SUNSHINE HEURES INSOLATION	HEATING DEGREE-DAYS DEGRÉS-JOURS DE CHAUFFE	GROWING DEGREE-DAYS DEGRÉS-JOURS DE CROISSANCE		
1975	29.4	3.3	16.9	72.6		72.6	10.3	48	266.7	58			
1976	30.0	5.1	17.6	135.9		135.9	12.1	89	259.8	43	379		
1977	29.0	-0.8	14.5	100.3		100.3	12.9	96	299.4	118	286		
1978	28.6	1.6	14.5	73.3		73.3	11.7	63	274.8	121	285		
1979	28.9	2.4	16.1	67.9		67.9	12.7	63	293.6	68	332		
1980	28.6	0.2	13.3	89.2		89.2	11.5	70	M	153	250		
1981	30.1	2.2	15.6	76.6		76.6	11.8	56	244.2	87	320		
1982	25.4	1.4	13.7	119.6		119.6	9.5	69	M	132	258		
1983	31.0	1.0	16.6	32.0		32.0	8.6	44	310.7	76	349		
1984	28.0	3.8	16.3	115.8		115.8	9.8	44	M	79	334		

Canada Canada

Atmospheric Environment Service | Service de l'environnement atmosphérique

MONTHLY METEOROLOGICAL SUMMARY
SOMMAIRE MÉTÉOROLOGIQUE MENSUEL

MINISTRY OF THE ENVIRONMENT ONTARIO
NOV - 5 1984
REGIONAL OFFICE LONDON

MONTH/MOIS JULY/JUILLET 1984

AT/À MOUNT FOREST, ONTARIO.

LAT: 43 • 59 'N LONG: 80 • 45 'W ELEVATION: ALTITUDE: 415 METRES (ASL) MÈTRES (NMM) STANDARD TIME USED: HEURE NORMALE UTILISÉE: EASTERN

DATE	TEMPERATURE TEMPÉRATURE			DEGREE-DAYS DEGRÉS-JOURS		REL. HUMIDITY HUMIDITÉ REL.		THUNDERSTORM ORAGE	PRECIPITATION PRÉCIPITATIONS			SNOW ON GROUND NEIGE AU SOL	WIND VENT			BRIGHT SUNSHINE INSOLATION
	MAXIMUM MAXIMALE °C	MINIMUM MINIMALE °C	MEAN MOYENNE °C	HEATING DE CHAUFFE BASE 18.0°C	GROWING DE CROISSANCE BASE 5.0°C	MAXIMUM MAXIMALE %	MINIMUM MINIMALE %		RAINFALL PLUIE (HAUTEUR) mm	SNOWFALL NEIGE (HAUTEUR) cm	TOTAL PRECIP. PRÉCIP. TOTALE mm		AVERAGE SPEED VITESSE MOYENNE km/h	PREVAILING DIRECTION DIRECTION DOMINANTE	MAXIMUM SPEED AND DIRECTION VITESSE MAXIMALE ET DIRECTION km/h	HOU HEUF
1	25.0	9.4	17.2	0.8	12.2	M	M						2.9	NE	N/NE7	11
2	25.2	12.3	18.8		13.8								3.2	W	W 9	11
3	26.0	14.4	20.2		15.2								8.3	S	W/SW15	12
4	25.2	14.0	14.6	3.4	9.6			1	3.0		3.0		5.7	NW	NW15	11
5	23.0	11.5	17.3	0.7	12.3			1	1.2		1.2		3.2	S	S 19	4
6	19.8	10.0	14.9	3.1	9.9				21.2		21.2		8.6	S	W 30	2
7	14.4	6.2	10.3	7.7	5.3				2.2		2.2		9.5	W	W 28	3
8	20.7	5.2	13.0	5.0	8.0								4.2	W	W 9	13
9	23.0	13.0	18.0		13.0								9.5	S	S 19	4
10	21.4	15.6	18.5		13.5			1	13.6		13.6		6.3	S	S 11	0
11	20.5	13.0	16.8	1.2	11.8				4.0		4.0		9.1	NW	SW37	5
12	25.2	11.7	18.5		13.5								5.8	W	W 17	13
13	27.4	13.6	20.5		15.5								4.9	SW	W 11	M
14	27.8	16.5	22.3		17.2								5.6	SW	W/SW11	M
15	24.4	17.2	20.8		15.8			1	16.6		16.6		11.9	SW	SW37	M
16	19.5	12.3	15.9	2.1	10.9								9.0	W	W 33	7.
17	21.2	12.0	16.6	1.4	11.6				2.6		2.6		11.6	S	SW44	5
18	19.0	10.2	14.6	3.4	9.6								8.7	NW	NW32	9.
19	22.8	9.0	15.9	2.1	10.9								9.0	W	SW33	11.
20	24.4	12.7	18.6		13.6								8.6	S	N 17	M
21	25.8	14.4	20.1		15.1								4.2	NW	NW11	M
22	26.4	13.8	20.1		15.1								8.0	SW	W/SW13	M
23	28.3	16.2	22.3		17.3								15.0	SW	W 32	7.
24	23.0	11.2	17.1	0.9	12.1								12.0	NW	NW37	12.
25	22.3	9.4	15.9	2.1	10.9								4.2	NW	NW13	12.
26	21.5	7.6	14.6	3.4	9.6				6.6		6.6		5.2	E	NE17	1.
27	21.3	9.9	15.6	2.4	10.6								8.5	N	N 19	M
28	21.9	8.8	15.4	2.6	10.4								6.9	N	N 19	M
29	23.1	8.2	15.7	2.3	10.7								5.2	E	N/NW11	M
30	25.0	12.0	18.5		13.5								4.2	NW	NW13	9.
31	25.4	13.3	19.4		14.4								11.7	SW	W 20	12.
MEAN MOYENNE	23.2	11.8	17.5	TOTAL 41.2	TOTAL 382.9			TOTAL 4	TOTAL 71.0	TOTAL	TOTAL 71.0		7.4	PREVAILING DOMINANTE S	MAXIMUM SW44	TOTAL M
NORMAL NORMALE	24.5	12.0	18.2	36.2	409.2				75.8		75.8		10.1			

DEGREE-DAY SUMMARY – SOMMAIRE DE DEGRÉS-JOURS

BELOW 18°C AU-DESSOUS DE 18°C	THIS YEAR ANNÉE EN COURS	PREVIOUS YEAR ANNÉE PRÉCÉDENTE	NORMAL NORMALE	ABOVE 5°C AU-DESSUS DE 5°C	THIS YEAR ANNÉE EN COURS	PREVIOUS YEAR ANNÉE PRÉCÉDENTE	NORMAL NORMALE
TOTAL FOR MONTH TOTAL DU MOIS	41	27	36	TOTAL FOR MONTH TOTAL DU MOIS	383	459	409
ACCUMULATED SINCE JULY 1 ACCUMULÉE DEPUIS LE 1er JUILLET	41	27	36	ACCUMULATED SINCE APRIL 1 ACCUMULÉE DEPUIS LE 1er AVRIL	894	856	978

DAYS WITH TOTAL PRECIPITATION: JOURS AVEC PRÉCIPITATIONS TOTALES: mm

0.2 OR MORE – OU PLUS	1.0 OR MORE – OU PLUS	2.0 OR MORE – OU PLUS	10.0 OR MORE – OU PLUS	50.0 OR MORE – OU PLUS
9	9	8	3	0

DAYS WITH SNOWFALL: JOURS AVEC CHÛTE DE NEIGE: cm

0.2 OR MORE – OU PLUS	1.0 OR MORE – OU PLUS	2.0 OR MORE – OU PLUS	10.0 OR MORE – OU PLUS	50. OR MOR – OU PLU
0	0	0	0	0

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Canada

COMPARATIVE RECORDS
RELEVÉS COMPARATIFS

MOUNT FOREST, ONTARIO

MONTH
MOIS

JULY/JUILLET

1984

Temperature/Température – °Celsius
Precipitation/Précipitation – Millimetres (mm)
Rainfall/Hauteur de pluie – Millimetres (mm)
Snowfall/Hauteur de neige – Centimetres (cm)
Wind speed/Vitesse du vent – Kilometres per hour/par heure (km/h)
Station pressure/Pression à la station – Kilopascals (kPa)

	THIS MONTH CE MOIS-CI		PREVIOUS YEAR ANNÉE PRÉCÉDENTE		NORMAL NORMALE	RECORD FOR THE MONTH RECORD POUR LE MOIS						YEARS OF RECORD ANNÉES D'OBSERVATIONS
						HIGHEST MAXIMUM ABSOLU			LOWEST MINIMUM ABSOLU			
	VALUE RELEVÉ	DATE	VALUE RELEVÉ	DATE		VALUE RELEVÉ	DAY JOUR	YEAR ANNÉE	VALUE RELEVÉ	DAY JOUR	YEAR ANNÉE	
HIGHEST TEMPERATURE TEMPÉRATURE LA PLUS ÉLEVÉE	28.3	23	31.2	30		36.7	10	1936	26.7	4	1971	64
LOWEST TEMPERATURE TEMPÉRATURE LA PLUS BASSE	5.2	8	4.2	6		10.0	M	1885	1.1	1	1936	64
MEAN MONTHLY TEMPERATURE TEMPÉRATURE MENSUELLE MOYENNE	17.5		19.8		18.2	19.8		1983	15.3		1965	23
TOTAL MONTHLY RAINFALL HAUTEUR TOTALE MENSUELLE DE PLUIE	71.0		63.0		75.8	160.5		1970	10.4		1936	61
TOTAL MONTHLY SNOWFALL HAUTEUR TOTALE MENSUELLE DE NEIGE												
TOTAL MONTHLY PRECIPITATION PRÉCIPITATION TOTALE MENSUELLE	71.0		63.0		75.8	160.5		1970	10.4		1936	61
NO OF DAYS WITH MEASURABLE PRECIPITATION NOMBRE DE JOURS AVEC PRÉCIPITATION MESURABLE	9		7		10	M			M			23
GREATEST RAINFALL IN ONE DAY HAUTEUR DE PLUIE MAXIMALE EN UNE JOURNÉE	21.2	6	19.8	4		M						23
GREATEST SNOWFALL IN ONE DAY HAUTEUR DE NEIGE MAXIMALE EN UNE JOURNÉE												
GREATEST PRECIPITATION IN ONE DAY PRÉCIPITATION MAXIMALE EN UNE JOURNÉE	21.2	6	19.8	4		M						23
MAXIMUM RAINFALL RECORDED IN: HAUTEUR DE PLUIE MAXIMALE ENREGISTRÉE EN:												
5 MINUTES	5.2	6	5.2	31								
10 MINUTES	7.2	6	8.8	31								
15 MINUTES	8.2	6	12.8	31								
30 MINUTES	10.6	9	29.2	31								
60 MINUTES	11.8	9	35.8	31								
24 CONSECUTIVE HOURS HEURES CONSECUTIVES	21.2	6	38.2	31								
MEAN WIND SPEED (km/h) VITESSE MOYENNE DU VENT (km/h)	7.4		8.6		10.1	12.5		1977	6.9		1967	23
MAXIMUM SPEED (1 min.) (km/h) VITESSE MAXIMALE (1 min.) (km/h)	30	17	32	4		48	26	1962	28	7	1978	23
MAXIMUM GUST SPEED (km/h) POINTE DU VENT MAXIMALE (km/h)										9	1981	
TOTAL HOURS OF SUNSHINE TOTAL DES HEURES INSOLATION	M		M		289	M			M			23
MEAN STATION PRESSURE (kPa) PRESSION MOYENNE À LA STATION (kPa)	96.7		M									
GREATEST STATION PRESSURE (kPa) PRESSION MAXIMALE À LA STATION (kPa)	97.8	29										
LEAST STATION PRESSURE (kPa) PRESSION MINIMALE À LA STATION (kPa)	95.7	17										

CLIMATOLOGICAL DATA FOR THE PAST 10 YEARS
DONNÉES CLIMATOLOGIQUES POUR LES 10 DERNIÈRE ANNÉES

YEAR ANNÉE	MAXIMUM TEMP. TEMP. MAXIMALE	MINIMUM TEMP. TEMP. MINIMALE	MEAN TEMP. TEMP. MOYENNE	RAINFALL HAUTEUR DE PLUIE	SNOWFALL HAUTEUR DE NEIGE	TOTAL PRECIP. PRECIP. TOTALE	MEAN WINDSPEED VITESSE MOYENNE DES VENTS	MAXIMUM WINDSPEED VITESSE MAXIMALE DES VENTS	HOURS SUNSHINE HEURES INSOLATION	HEATING DEGREE-DAYS DEGRÉS-JOURS DE CHAUFFE	GROWING DEGREE-DAYS DEGRÉS-JOURS DE CROISSANCE		
1975	30.8	4.2	18.9	68.8		68.8	9.7	29	318.1	26.8	435.0		
1976	27.8	4.9	17.7	72.7		72.7	10.4	33	248.8	47.5	377.3		
1977	31.4	3.7	20.4	82.8		82.8	12.5	43	283.8	27.8	434.7		
1978	30.9	4.4	18.1	23.3		23.3	9.2	65	284.4	40.6	407.0		
1979	30.3	5.0	18.5	31.5		31.5	7.6	52	300.0	36.2	417.7		
1980	29.0	5.0	17.9	121.0		121.0	8.0	63	M	34.3	399.7		
1981	29.6	4.0	18.5	51.4		51.4	8.9	56	M	33.4	420.2		
1982	29.0	4.4	18.7	57.8		57.8	10.0	67.	M	27.0	423.2		
1983	31.2	4.2	19.8	63.0		63.0	8.6	56	M	26.7	458.9		
1984	28.3	5.2	17.5	71.0		71.0	7.4	44	M	41.2	382.9		

5. MINISONDE DATA

(ALL TIMES ARE EXPRESSED IN LOCAL DAYLIGHT TIME (L.D.T.))

5.A MINISONDE DATA FOR CAMLACHIE SITE, JUNE-JULY 1984

MINISONDE MEASUREMENTS as Recorded by the Automated Single/Double Theodolite System for Winds and Temperature aloft at Camlachie

The Sarnia_84 survey offered an excellent opportunity for the checking and validation of a new, stand-alone, automated double theodolite minisonde tracking system implemented by the Monitoring and Instrumentation Development Unit.

This system consisted of two theodolites fitted with optical shaft encoders for the azimuth and elevation measurements, a remote balloon release, 300 metres of cabling, an HP85 computer with a serial interface for data acquisition, an HP7470A plotter and specialized data acquisition/control hardware. All of the upper-air data was recorded, plotted, tabulated and stored by this system and since it was an independent system, up to 3 minisondes could be released each hour with the processed data presented five minutes after the data acquisition was completed. Owing to this fact, the flight patterns were often based on these "real-time" results.

Each minisonde launch was made perpendicular to the surface wind direction. Prior to each launch, the lifting potential of each balloon was measured and set for the balloon and minisonde package. This lifting weight corresponded to a rise rate of 3 metres/second, thus double and single interpretations of the acquired data could be made. Only the lower 2 km of the atmosphere was investigated by this method.

Sixty-six minsonde launches were made during this survey and the readings were taken along two established baselines. The north/south baseline (for westerlies) had a bearing of 006 degrees true and a spacing of 153 m from theodolite B to balloon launch site and 146 m from balloon launch site to theodolite A. The east/west basline (for northerlies or southerlies) had a bearing of 116 degrees true and a spacing of 125 m from theodolite B to the balloon launch site and 145 m from the balloon launch site to theodoloite A.

Because of this relatively small separtion of theodolites, the angular set-up for the azimuth for both theodolites was found to be very critical. From comparative analysis between single and double interpretations for each minisonde release, it was found that an angular descreptancy of even 0.5 degrees in the baseline could throw off the entire data calculations since all calculations were referred back to the baselines and the initial sightings on the minisonde. Owing to this fact, only the best upper-air interpretation for each minisonde release is presented in this report.

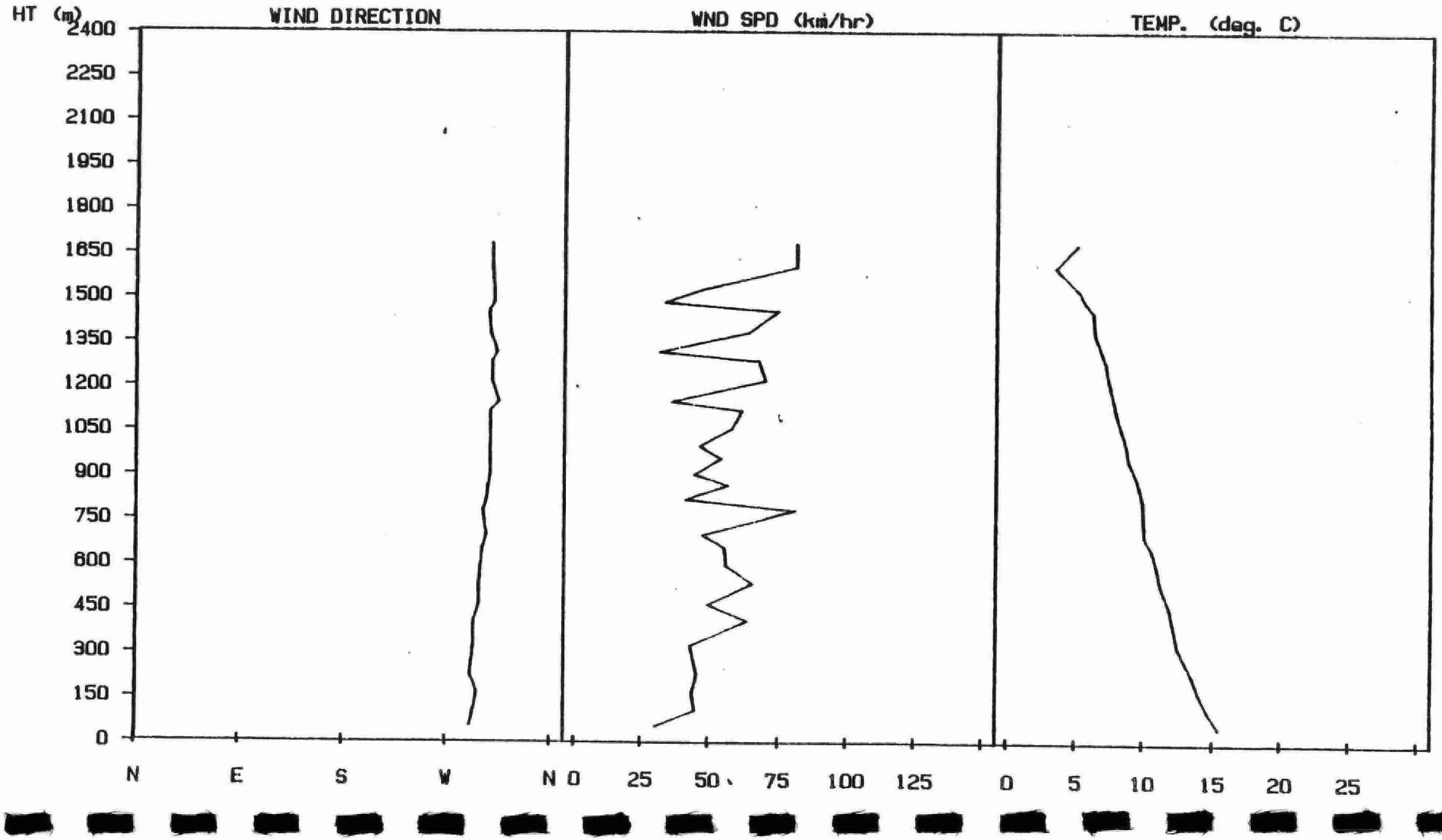
For the sixty-six analyses presented, the heights are above MSL, the temperature in degrees Celsius, the wind direction FROM and the wind velocity in km/hr. Usually, in manual systems, the balloon position was noted every 30 seconds and the operator had to leave the eyepiece and look at and record the degrees from the appropiate scales. In this system, the operator never had to leave the eyepiece and was given an audible signal two seconds before the DAS recorded the finding. In this automated mode, the balloon was constantly followed by the operator and interrogations/scans of the aximuth and elevation angles and temperature were made every 15 seconds.

DOUBLE THEODOLITE RUN

NAME: SARNIA_84_UA: 0701A, 0701B
LOC: Coast guard site...temp edited, azmith-1.5dge
MET: BEHIND COLD FNT CU STR WESTERLIES
ELEV, HT DIFF: 195.0, -.3 m.
A: BASE: 146.1 m.
B: BASE: 152.7 m.
REPORT TIME: 15 sec.

GND TEMP: 16.3 deg.C
BEARING : 6.0 deg.
BEARING : 185.0 deg.
A-B: 298.8m, 5.5 d

START: 84/07/07 09:01:18
SCAN : 15 sec.
SCAN : 15 sec.
ASCENT RATE: 3.0 m/sec



SINGLE THEODOLITE RUN

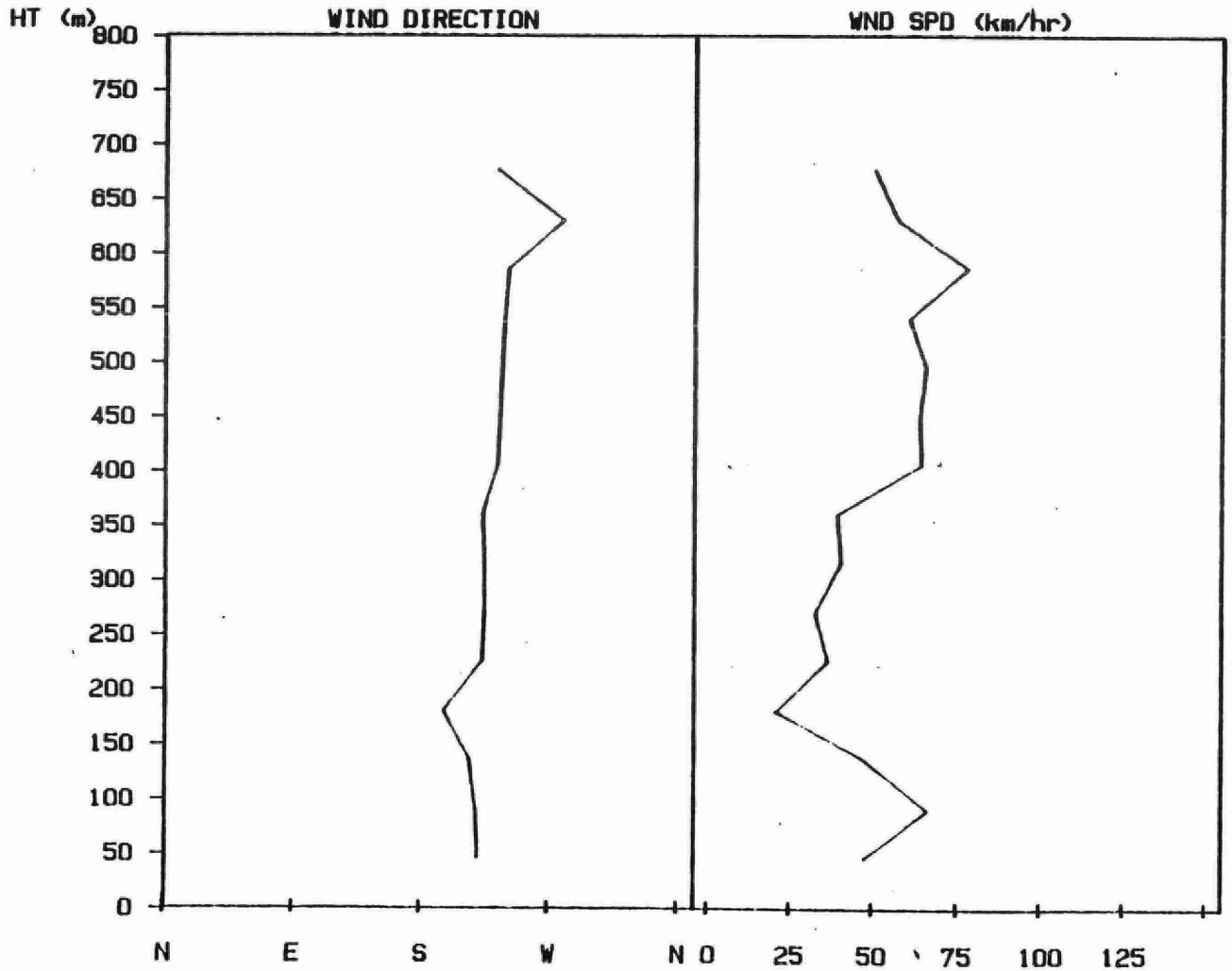
NAME: SARNIA_84_UA: 62738
LOC: COAST GUARD SITE
MET: ALTOCUMULUS
ELEV: 100.0 m.
BASE: 124.8 m.

GND TEMP: 21.0 deg.C
BEARING : 124.0 deg.

START: 84/06/26 10:52:10
SCAN : 15 sec.

REPORT TIME: 15 sec.

ASCENT RATE: 3.0 m/sec

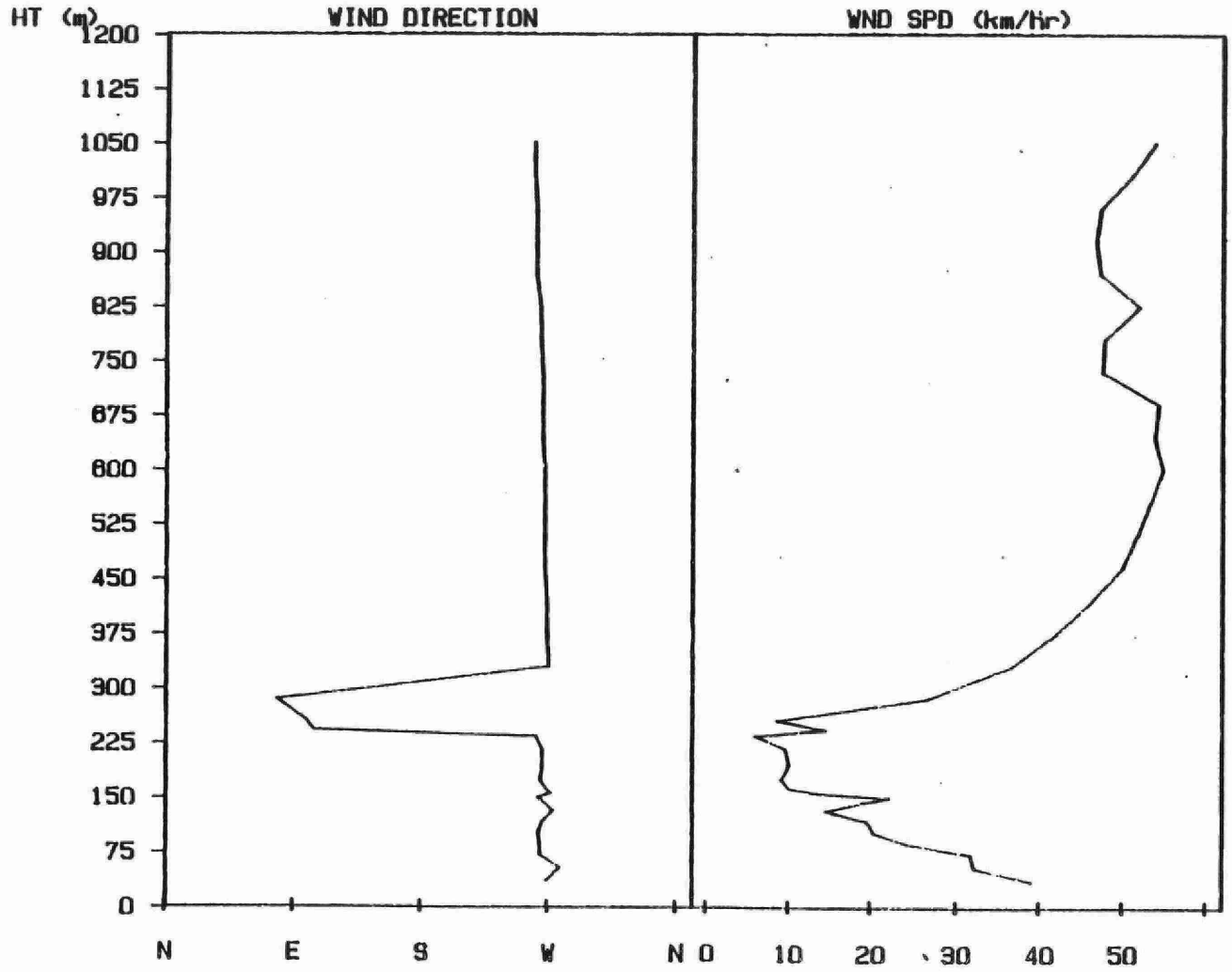


DOUBLE THEODOLITE RUN

NAME: SARNIA_84_UA: 6275A, 6275B
LOC: COAST GUARDS SITE ...AZ -10
MET: ALTOCUMULUS
ELEV. HT DIFF: 100.0, 1.7 m.
A: BASE: 148.1 m.
B: BASE: 152.7 m.
REPORT TIME: 15 sec.

GND TEMP: 25.3 deg.C
BEARING : 14.0 deg.
BEARING : 199.0 deg.
A-B: 298.8m, 13.5 d

START: 84/08/27 14:02:13
SCAN : 15 sec.
SCAN : 15 sec.
ASCENT RATE: 9.0 m/sec



SINGLE THEODOLITE RUN

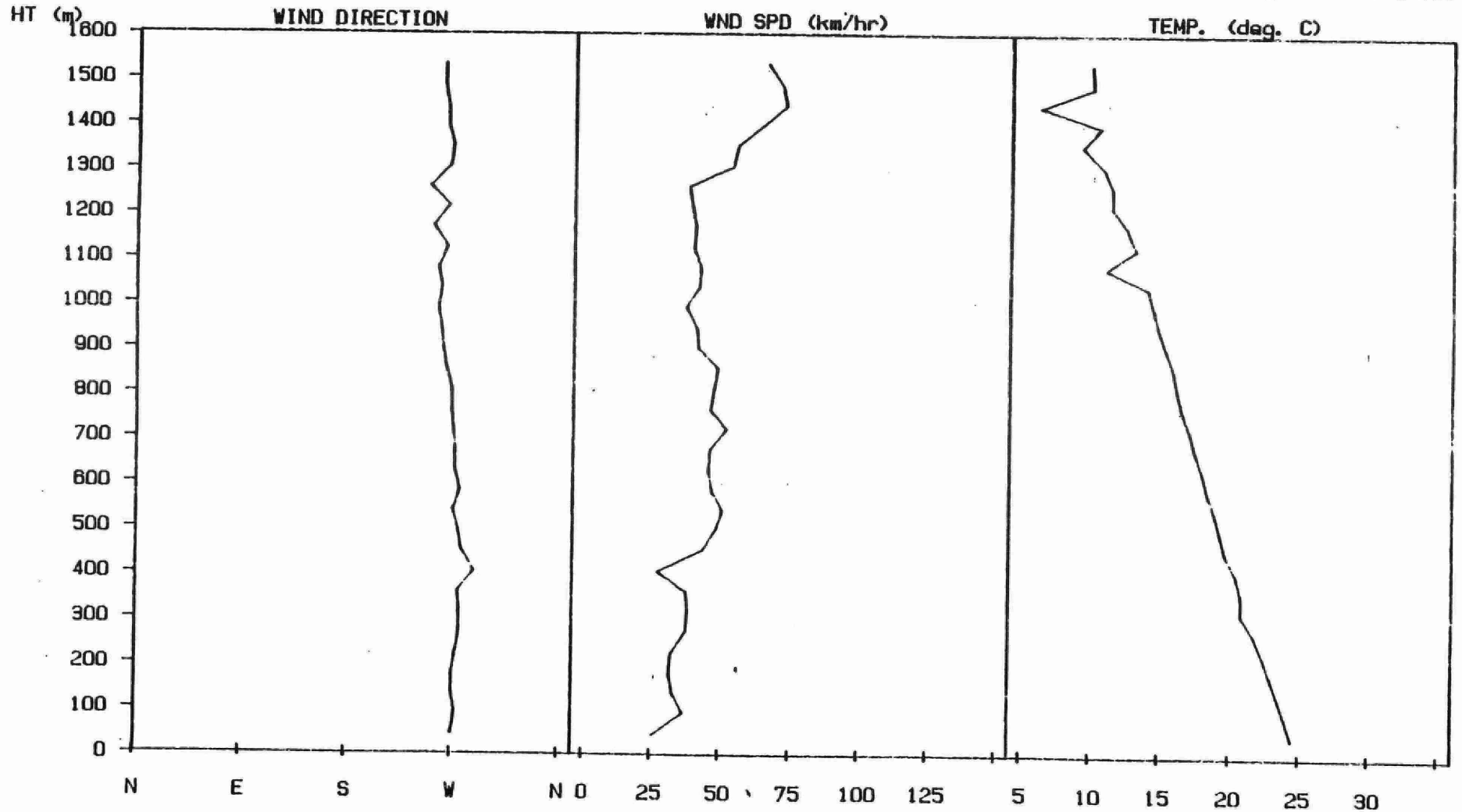
NAME: SARNIA_84_UA: 6276A
LOC: COAST GUARD SITE
MET: ALTOCUMULUS
ELEV: 100.0 m.
BASE: 146.1 m.

GND TEMP: 26.0 deg.C
BEARING : 14.0 deg.

START: 84/06/27 14:26:57
SCAN : 15 sec.

REPORT TIME: 15 sec.

ASCENT RATE: 9.0 m/sec

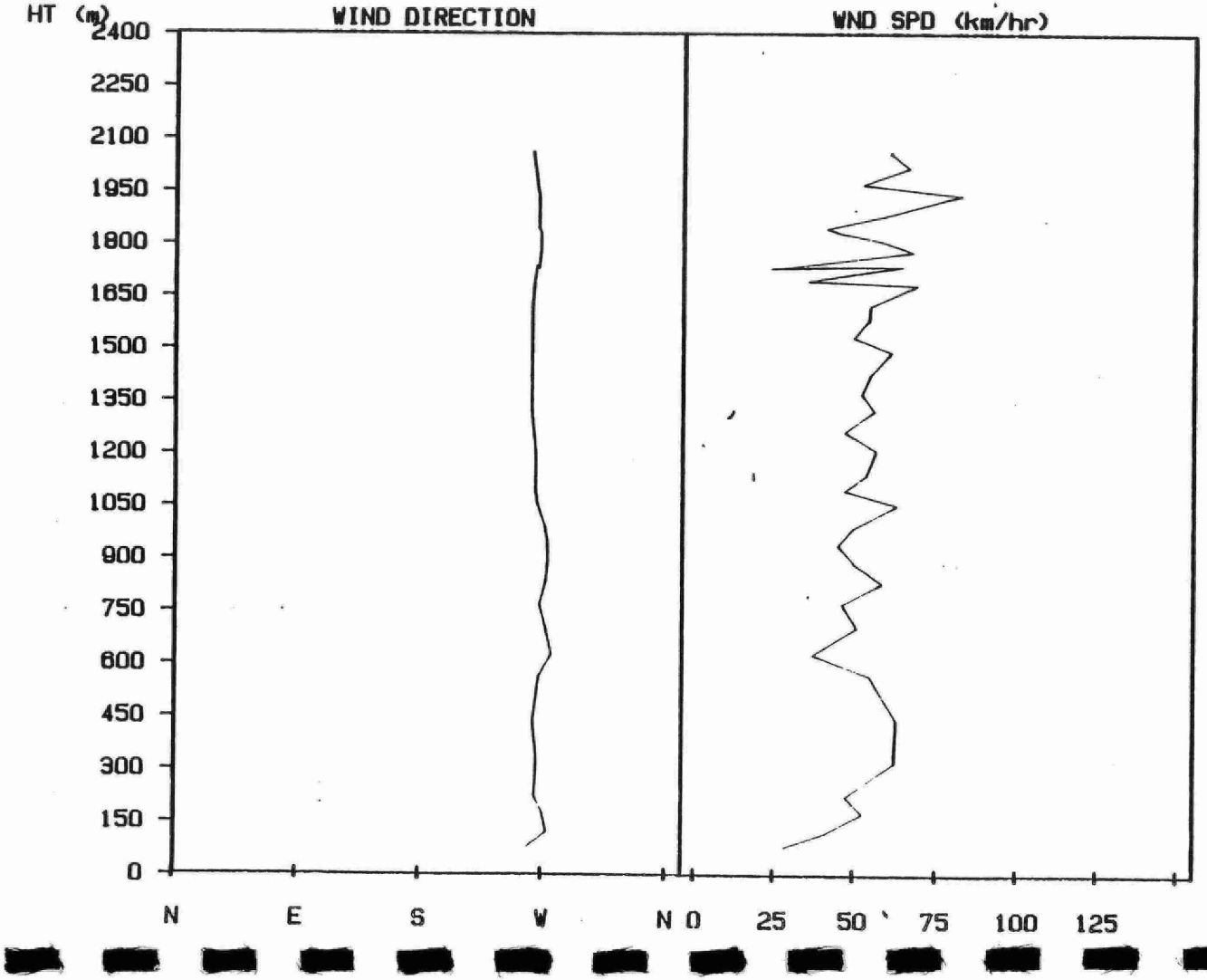


DOUBLE THEODOLITE RUN

NAME: SARNIA_84_UA: 6277A, 6277B
LOC: COAST GUARD SITE ...AZ -1
MET: ALTOCUMULUS
ELEV, HT DIFF: 100.0, 1.0 m.
A: BASE: 146.1 m.
B: BASE: 152.7 m.
REPORT TIME: 15 sec.

GND TEMP: 25.3 deg.C
BEARING : 14.0 deg.
BEARING : 193.0 deg.
A-B: 298.7m, 13.5 d

START: 84/08/27 14:49:07
SCAN : 15 sec.
SCAN : 15 sec.
ASCENT RATE: 9.0 m/sec

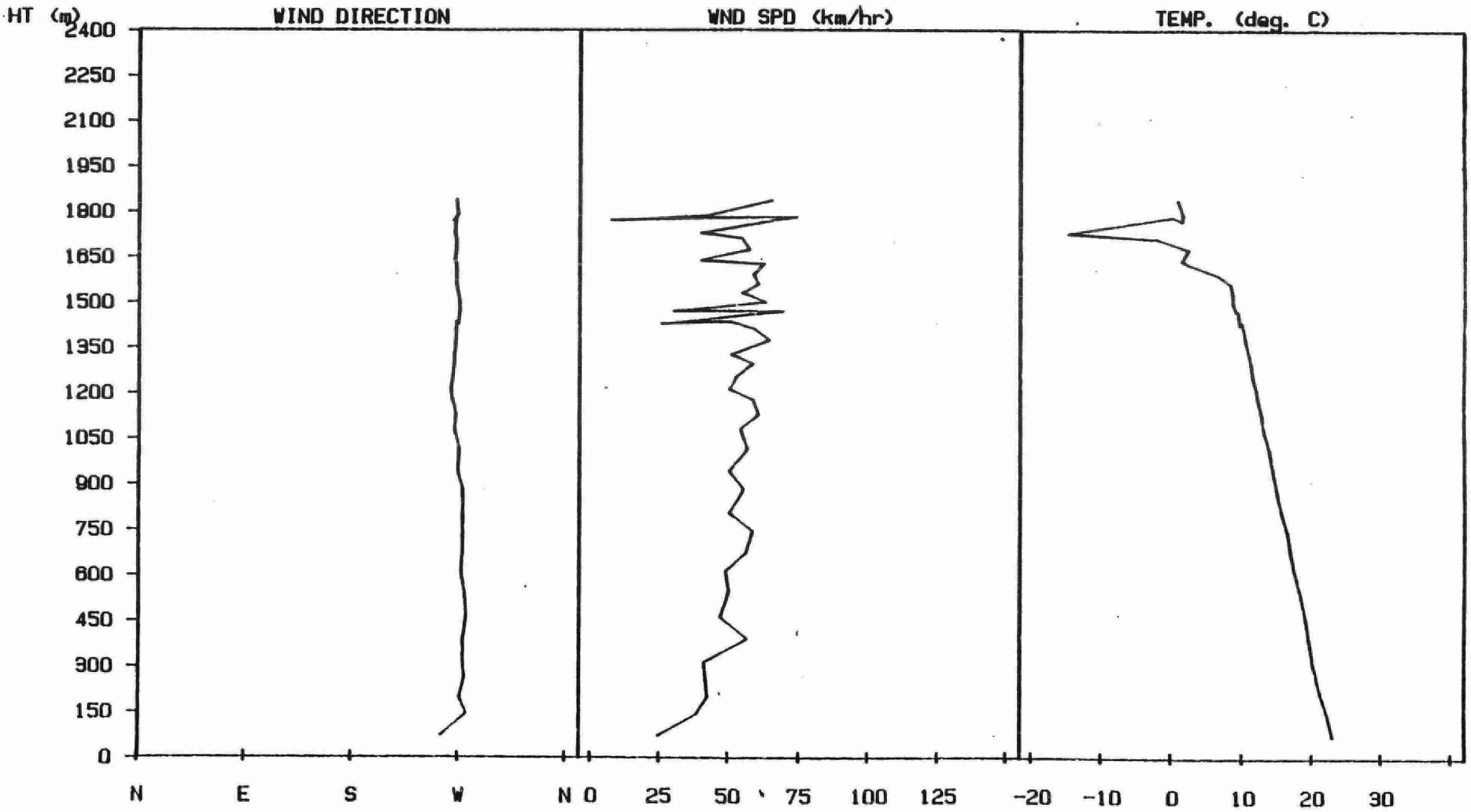


DOUBLE THEODOLITE RUN

NAME: SARNIA_84_JA: 6278A, 6278B
LOC: COAST GUARD SITE ... AZ -2.5
MET: ALTOCUMULUS
ELEV. HT DIFF: 100.0, 2.5 m.
A: BASE: 146.0 m.
B: BASE: 152.7 m.
REPORT TIME: 15 sec.

GND TEMP: 25.9 deg.C
BEARING : 14.0 deg.
BEARING : 199.0 deg.
A-B: 298.7m, 19.5 d

START: 84/06/27 15:13:40
SCAN : 15 sec.
SCAN : 15 sec.
ASCENT RATE: 3.0 m/sec



SINGLE THEODOLITE RUN

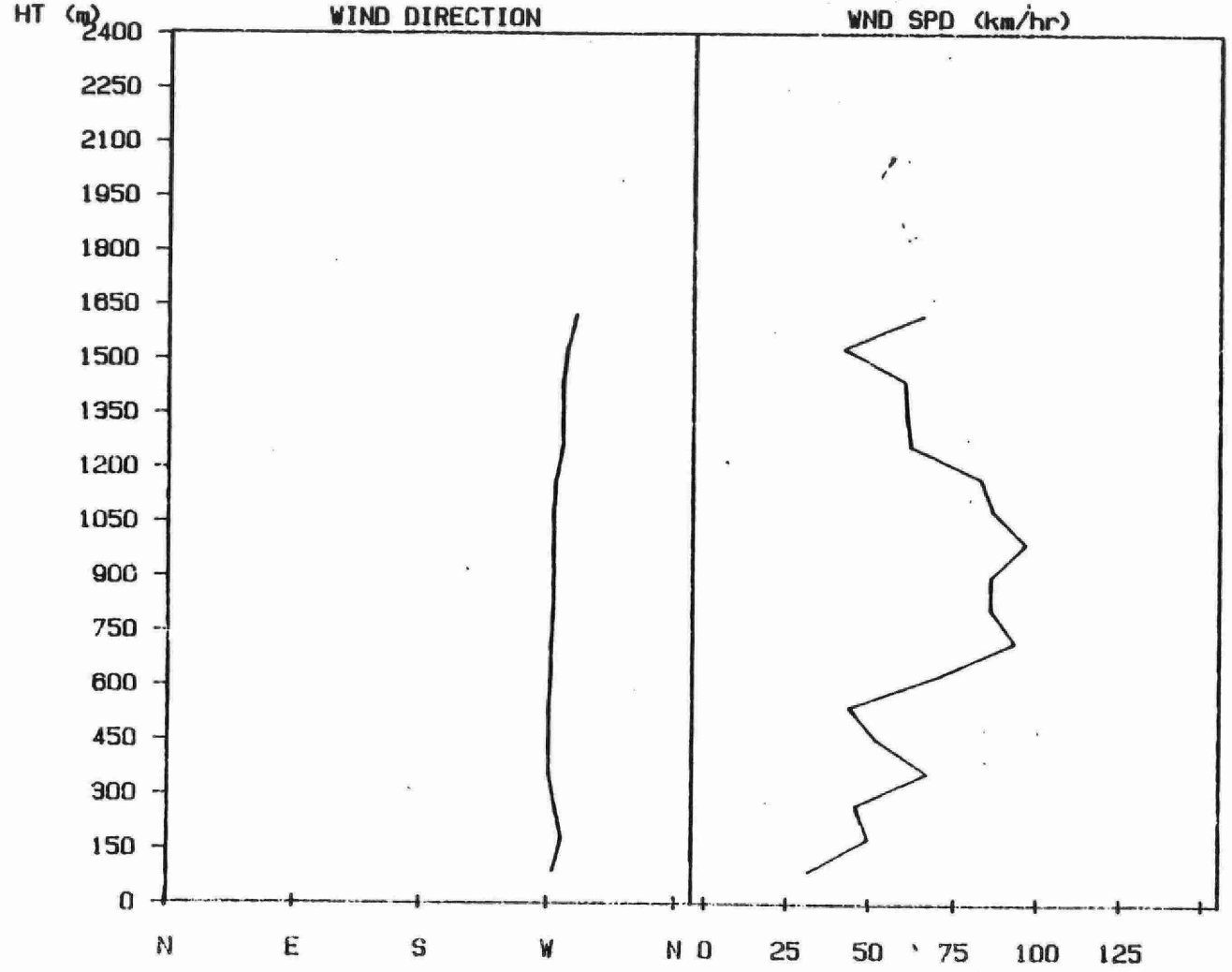
NAME: SARNIA_84_UA: 6279A
LOC: COAST GUARD SITE
MET: ALTOCUMULUS
ELEV: 100.0 m.
BASE: 146.1 m.

GND TEMP: 25.0 deg.C
BEARING : 14.0 deg.

START: 84/06/27 15:49:41
SCAN : 30 sec.

REPORT TIME: 30 sec.

ASCENT RATE: 9.0 m/sec

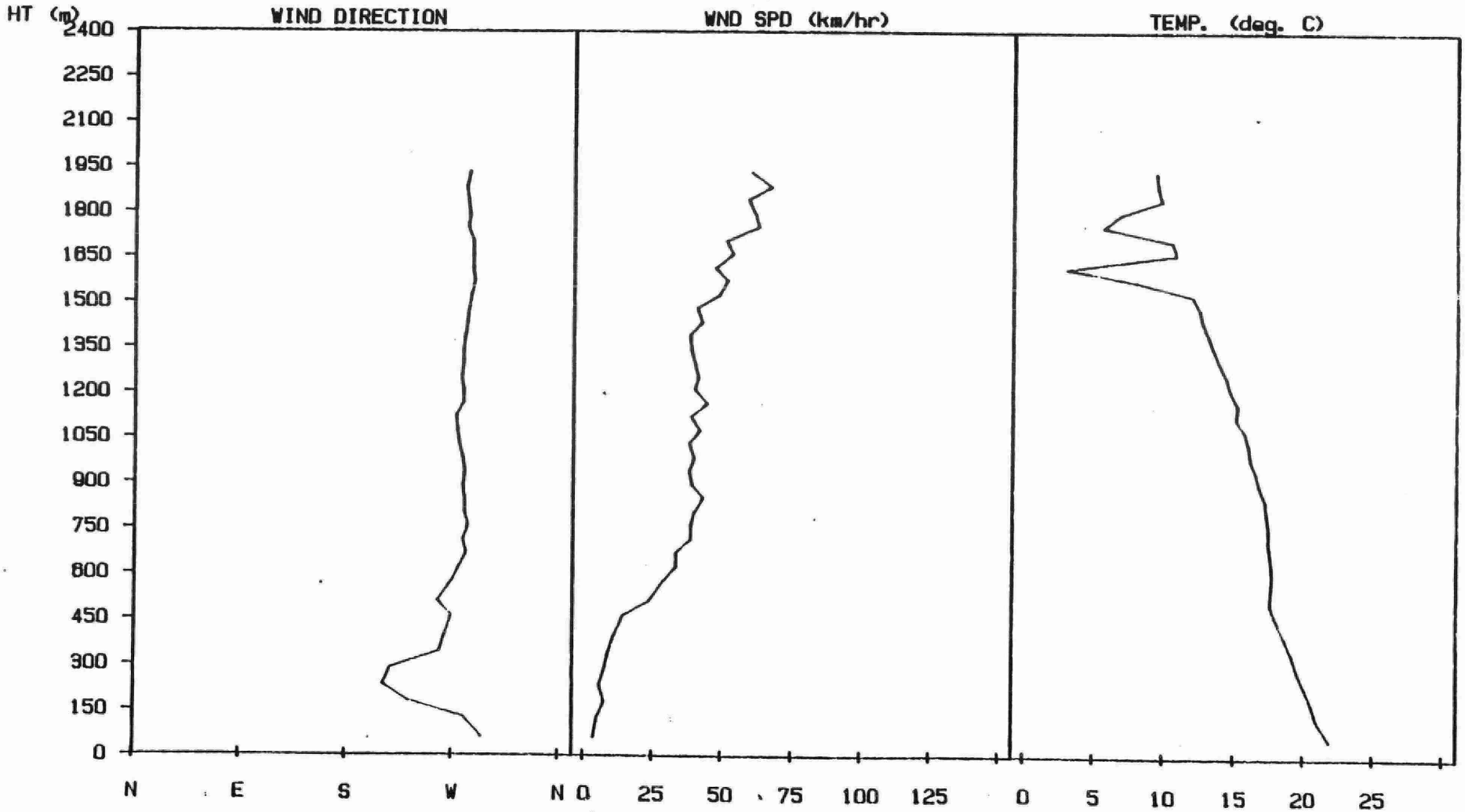


DOUBLE THEODOLITE RUN

NAME: SARNIA_84_UA: 6281A, 6281B
LOC: COAST GUARD SITE
MET: CLEAR BEHIND COLD FRONT LIGHT WESTERLIES
ELEV. HT DIFF: 195.0, .5 m.
A: BASE: 146.1 m.
B: BASE: 152.7 m.
REPORT TIME: 15 sec.

GND TEMP: 24.0 deg.C
BEARING : 6.0 deg.
BEARING : 185.0 deg.
A-B: 298.8m, 5.5 d

START: 84/06/28 09:59:10
SCAN : 15 sec.
SCAN : 15 sec.
ASCENT RATE: 3.0 m/sec



SINGLE THEODOLITE RUN

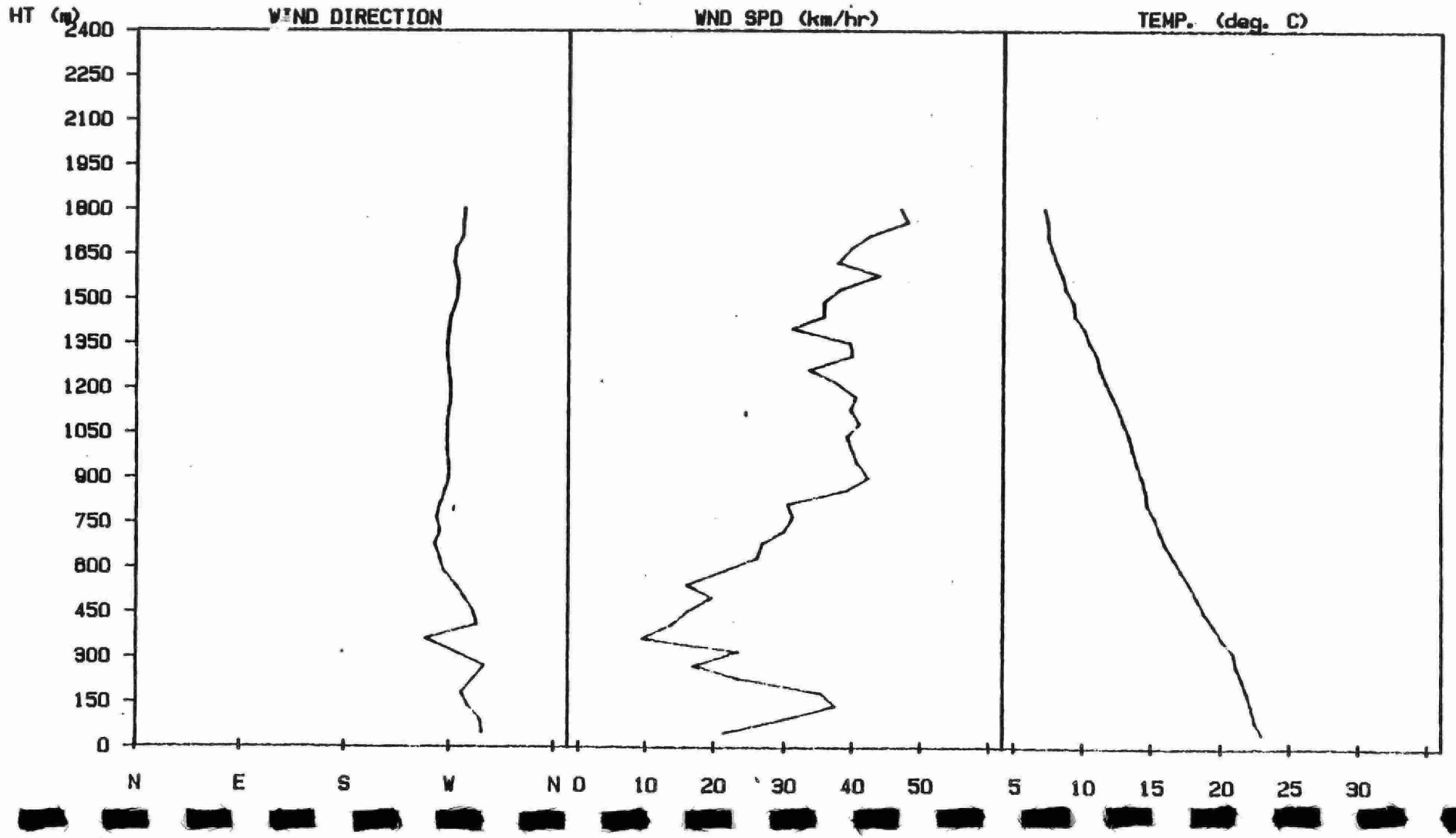
NAME: SARNIA_84_UA: 62828
LOC: COAST GUARD SITE
MET: SAME AS 6281
ELEV: 195.0 m.
BASE: 146.1 m.

GND TEMP: 25.9 deg.C
BEARING : 185.0 deg.

START: 84/06/28 11:59:09
SCAN : 15 sec.

REPORT TIME: 15 sec.

ASCENT RATE: 9.0 m/sec

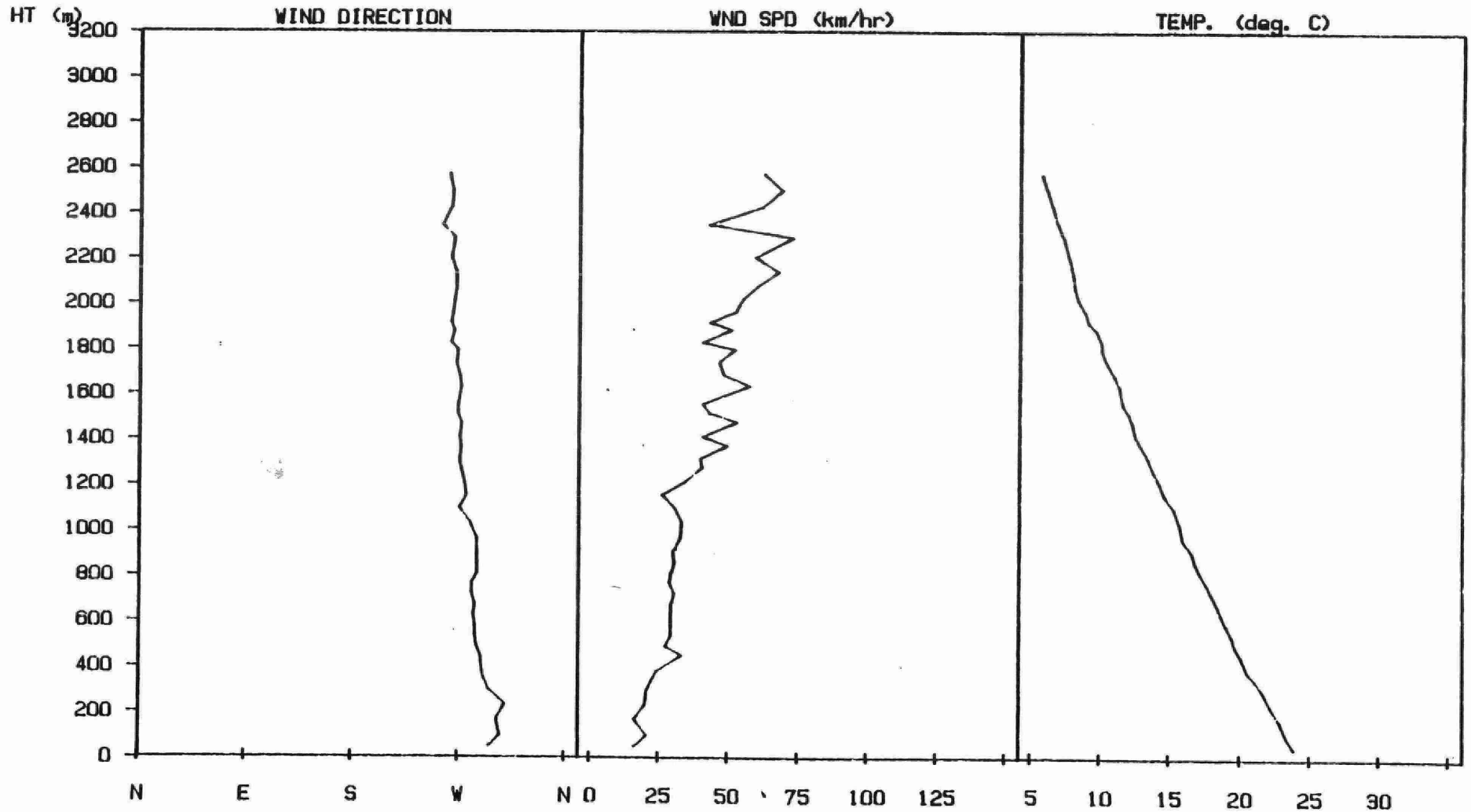


DOUBLE THEODOLITE RUN

NAME: SARNIA_84_UA: 6283A, 6283B
LOC: COAST GUARD SITE ...AZ-2.5
MET: SCATTERED FR WX CUM WESTERLY
ELEV. HT DIFF: 195.0, 1.0 m.
A: BASE: 146.1 m.
B: BASE: 152.7 m.
REPORT TIME: 15 sec.

GND TEMP: 28.1 deg.C
BEARING : 6.0 deg.
BEARING : 185.0 deg.
A-B: 298.8m, 5.5 d

START: 84/08/28 14:00:19
SCAN : 15 sec.
SCAN : 15 sec.
ASCENT RATE: 3.0 m/sec

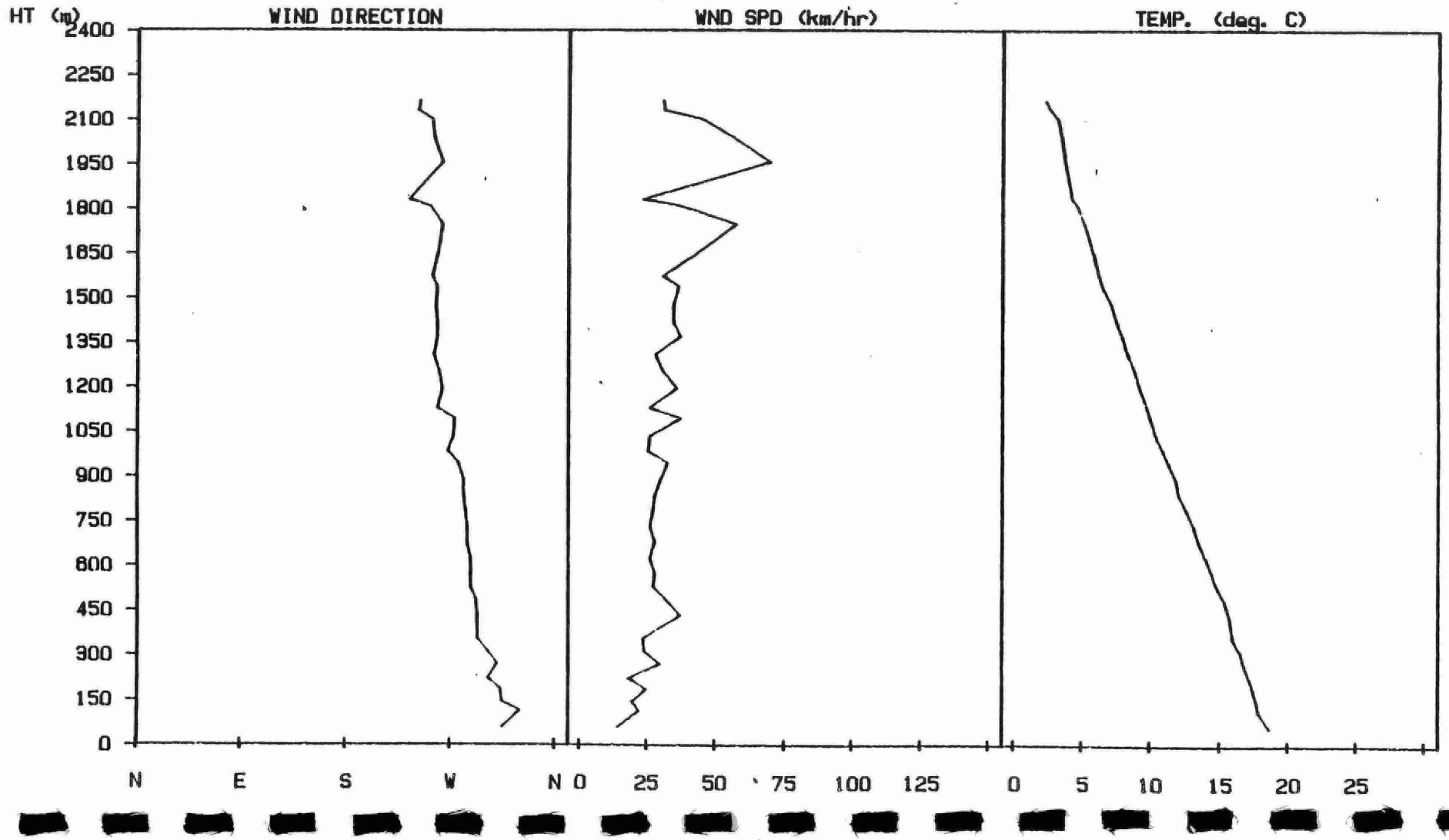


DOUBLE THEODOLITE RUN

NAME: SARNIA_84_UA: 6284A, 6284B
LOC: COAST GUARD SITE ... AZ-3
MET: SCATTERED FAIR CUMULUS WESTERLY
ELEV, HT DIFF: 195.0, 2.3 m.
A: BASE: 146.1 m.
B: BASE: 152.7 m.
REPORT TIME: 15 sec.

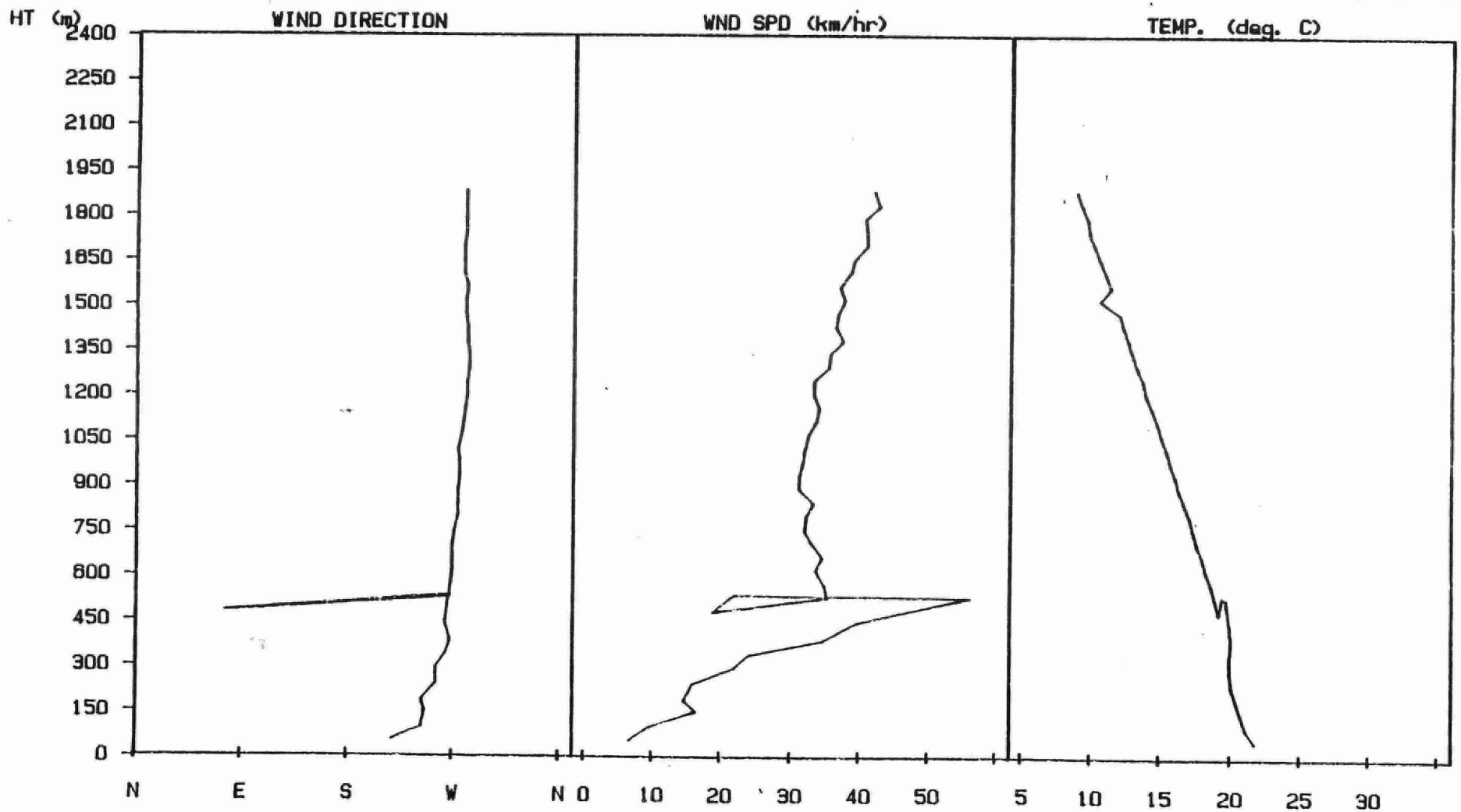
GND TEMP: 28.7 deg.C
BEARING : 8.0 deg.
BEARING : 185.0 deg.
A-B: 298.7m, 5.5 d

START: 84/08/28 18:01:16
SCAN : 15 sec.
SCAN : 15 sec.
ASCENT RATE: 3.0 m/sec



DOUBLE THEODOLITE RUN

NAME: SARNIA_84_JA: 7031A, 7031B
LOC: COAST GUARD SITE
MET: CLEAR SCATTERED ALTO CUMULUS LIGHT SOUTH WESTERLY WIND
ELEV, HT DIFF: 195.0, .4 m.
A: BASE: 147.1 m.
B: BASE: 124.8 m.
REPORT TIME: 15 sec.
GND TEMP: 23.6 deg.C
BEARING : 296.0 deg.
BEARING : 116.0 deg.
A-B: 271.9m, 296.0 d
START: 84/07/04 10:00:22
SCAN : 15 sec.
SCAN : 15 sec.
ASCENT RATE: 3.0 m/sec



SINGLE THEODOLITE RUN

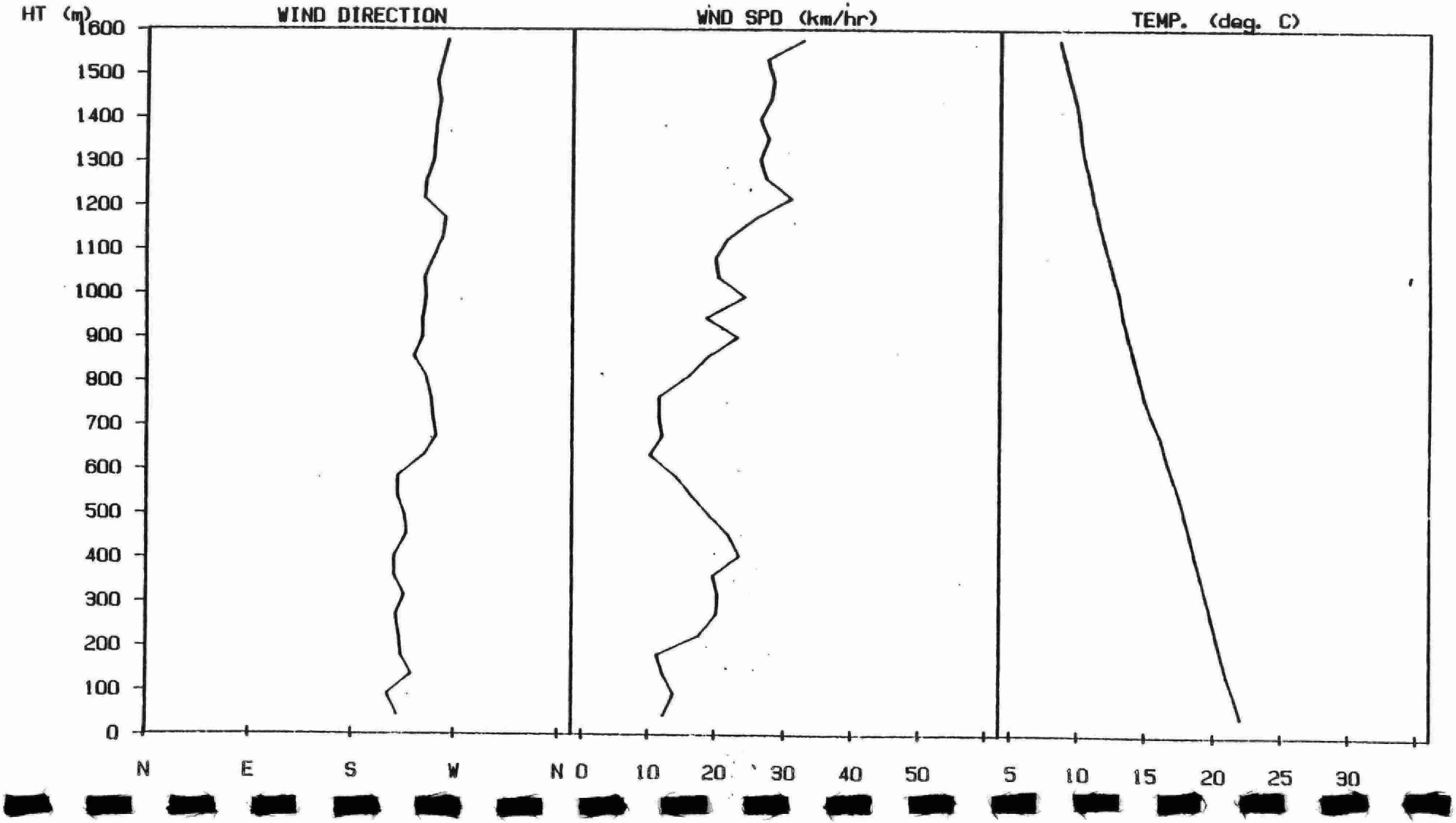
NAME: SARNIA_84_UA: 7032A
LOC: COAST GUARD SITE
MET: CLEAR SOUTH WESTERLY WIND
ELEV: 195.0 m.
BASE: 146.9 m.

GND TEMP: 27.5 deg.C
BEARING : 296.0 deg.

START: 84/07/03 12:01:24
SCAN : 15 sec.

REPORT TIME: 15 sec.

ASCENT RATE: 3.0 m/sec

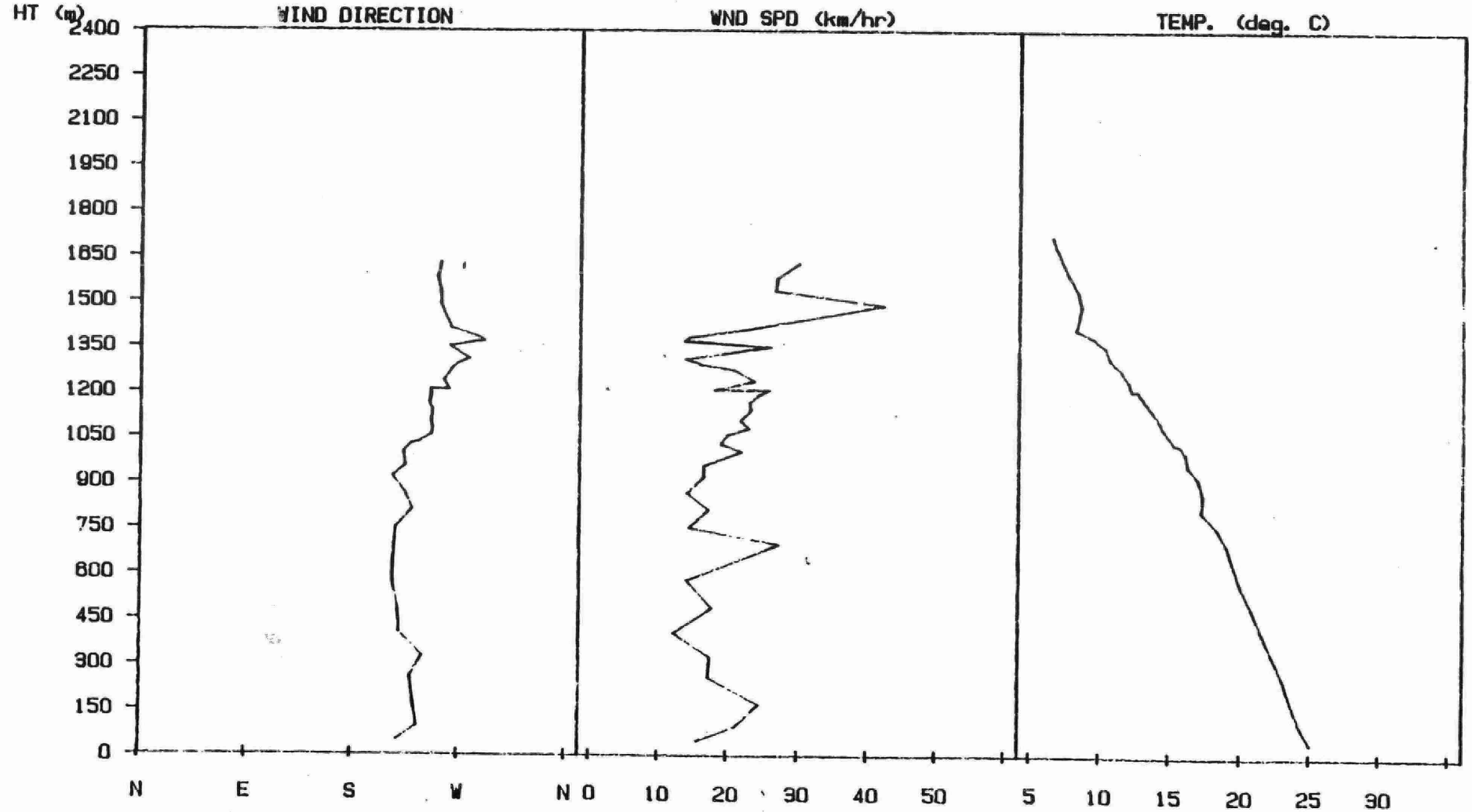


DOUBLE THEODOLITE RUN

NAME: SARNIA_84_UA: 7039A, 7039B
LOC: COAST GUARD SITE
MET: SAME AS 7091
ELEV. HT DIFF: 195.0, 4.4 m.
A: BASE: 147.0 m.
B: BASE: 124.8 m.
REPORT TIME: 15 sec.

GND TEMP: 29.0 deg.C
BEARING : 296.0 deg.
BEARING : 116.0 deg.
A-B: 271.8m, 296.0 d

START: 84/07/09 14:01:22
SCAN : 15 sec.
SCAN : 15 sec.
ASCENT RATE: 9.0 m/sec

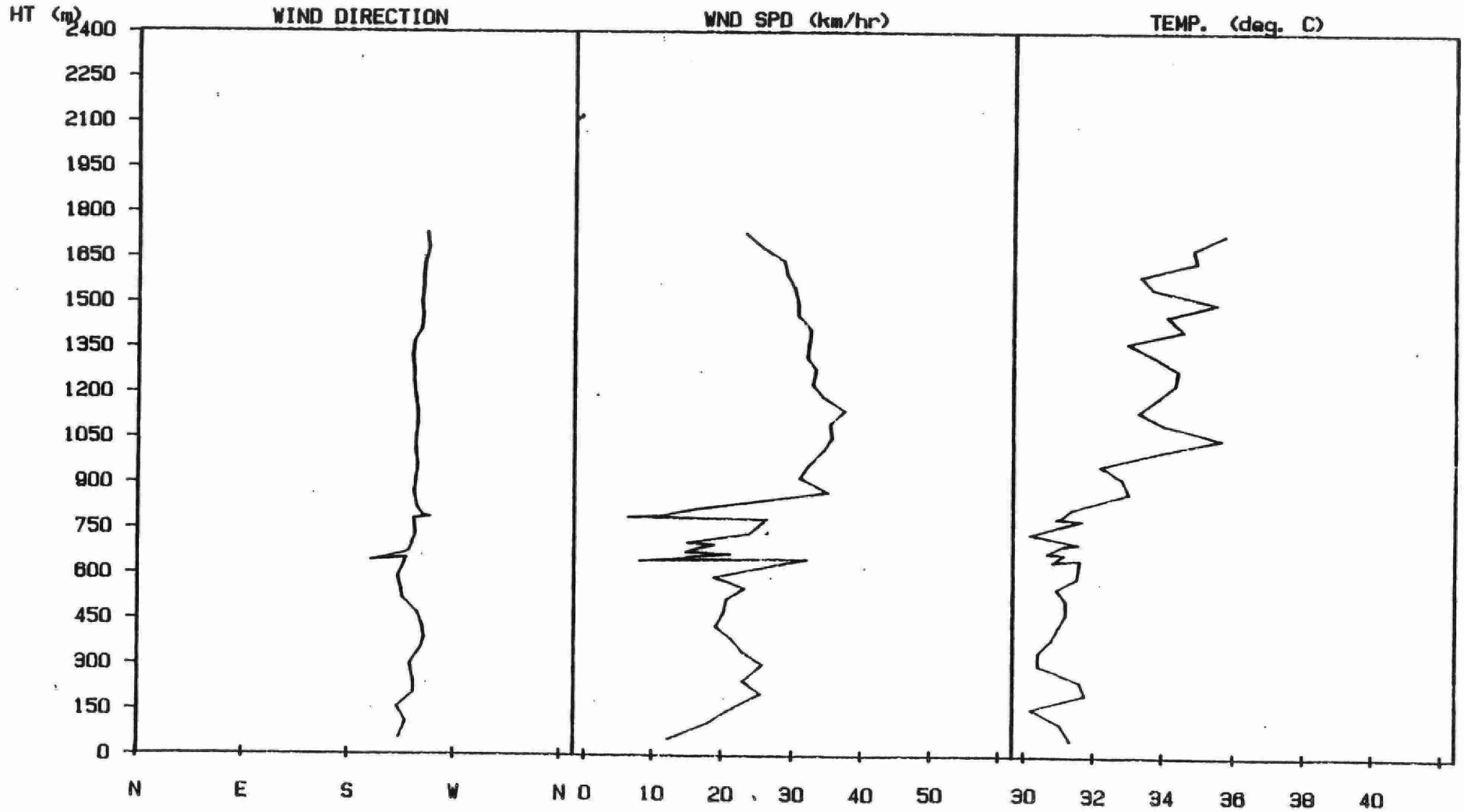


DOUBLE THEODOLITE RUN

NAME: SARNIA_84_JA: 7034A. 7034B
LOC: COAST GUARD SITE
MET: ALTO CUMULUS SOUTH WESTERLY
ELEV. HT DIFF: 195.0. 3.4 m.
A: BASE: 147.0 m.
B: BASE: 124.8 m.
REPORT TIME: 15 sec.

GND TEMP: 30.0 deg.C
BEARING : 296.0 deg.
BEARING : 116.0 deg.
A-B: 271.8m. 296.0 d

START: 84/07/09 18:01:23
SCAN : 15 sec.
SCAN : 15 sec.
ASCENT RATE: 3.0 m/sec

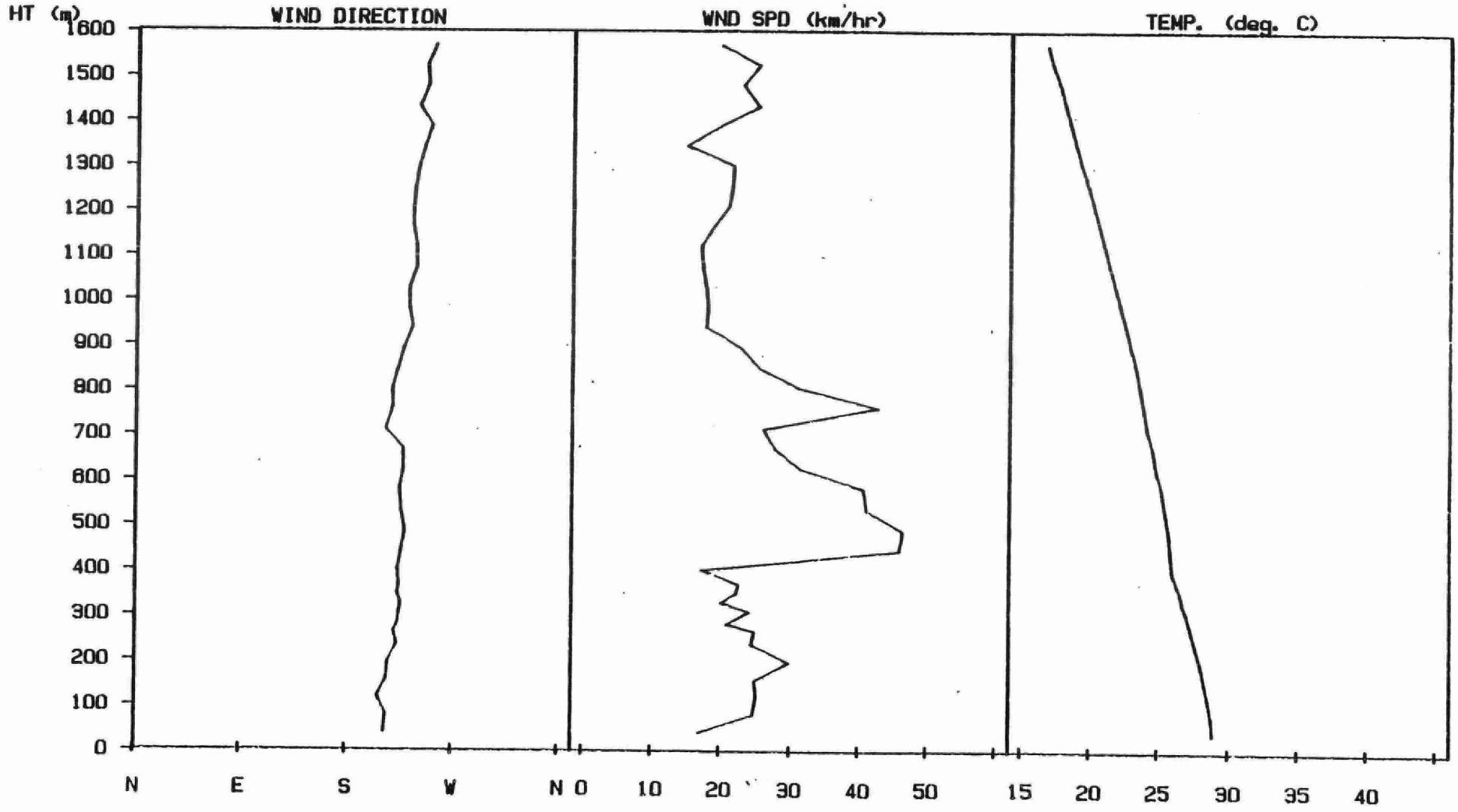


DOUBLE THEODOLITE RUN

NAME: SARNIA_84_UA: 7035A, 7035B
LOC: COAST GUARD SITE
MET: SAME AS 7034
ELEV, HT DIFF: 195.0, 5.5 m.
A: BASE: 146.9 m.
B: BASE: 124.8 m.
REPORT TIME: 15 sec.

GND TEMP: 28.4 deg.C
BEARING : 296.0 deg.
BEARING : 116.0 deg.
A-B: 271.7m, 298.0 d

START: 84/07/09 16:25:00
SCAN : 15 sec.
SCAN : 15 sec.
ASCENT RATE: 3.0 m/sec

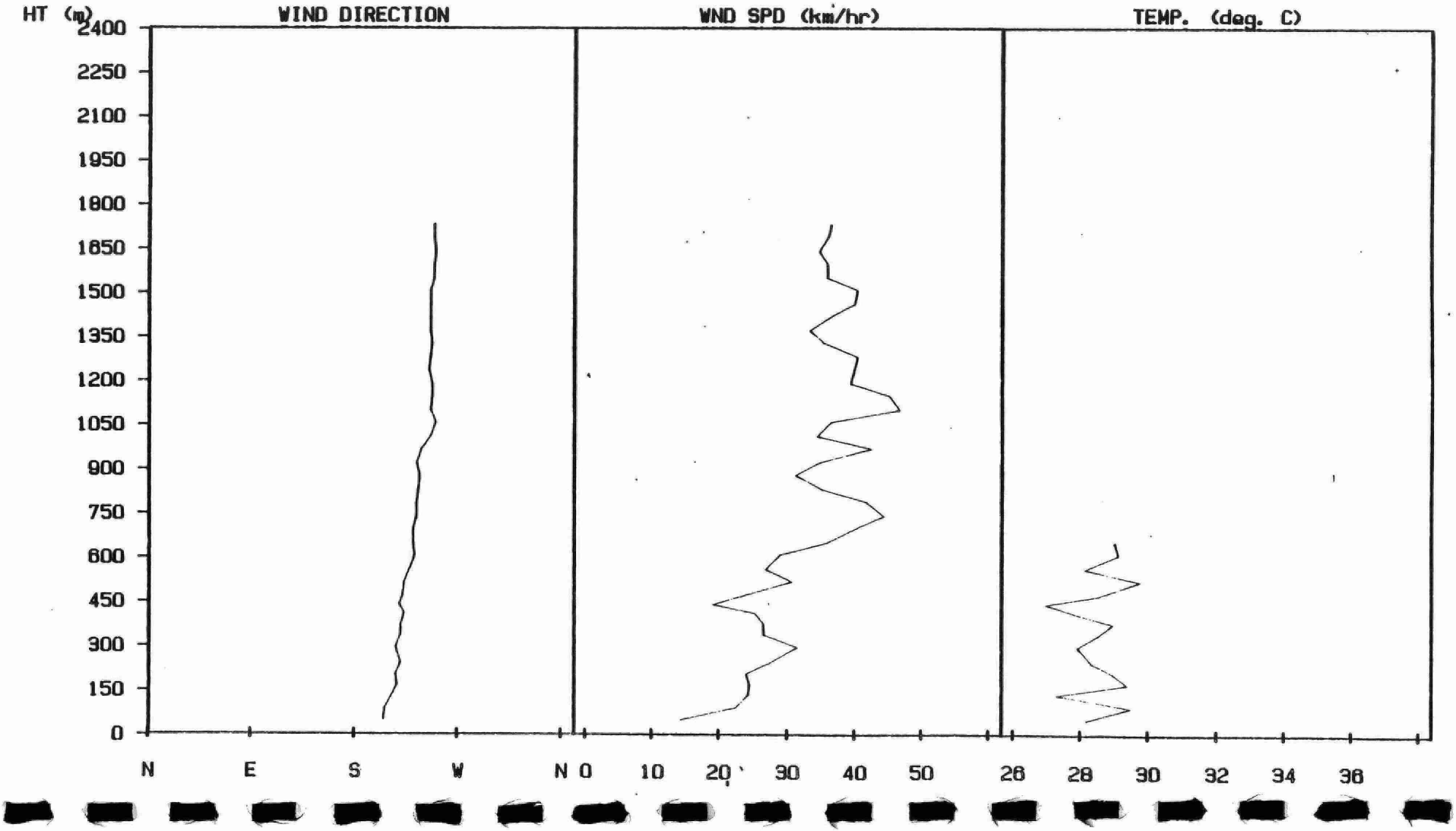


DOUBLE THEODOLITE RUN

NAME: SARNIA_84_JA: 7036A, 7036B
LOC: COAST GUARD SITE
MET: BROKEN ALTO CUMULUS SOUTH WEST
ELEV, HT DIFF: 195.0, 6.6 m.
A: BASE: 146.8 m.
B: BASE: 124.8 m.
REPORT TIME: 15 sec.

GND TEMP: 28.7 deg.C
BEARING : 296.0 deg.
BEARING : 116.0 deg.
A-B: 271.6m, 296.0 d

START: 84/07/03 17:59:49
SCAN : 15 sec.
SCAN : 15 sec.
ASCENT RATE: 3.0 m/sec

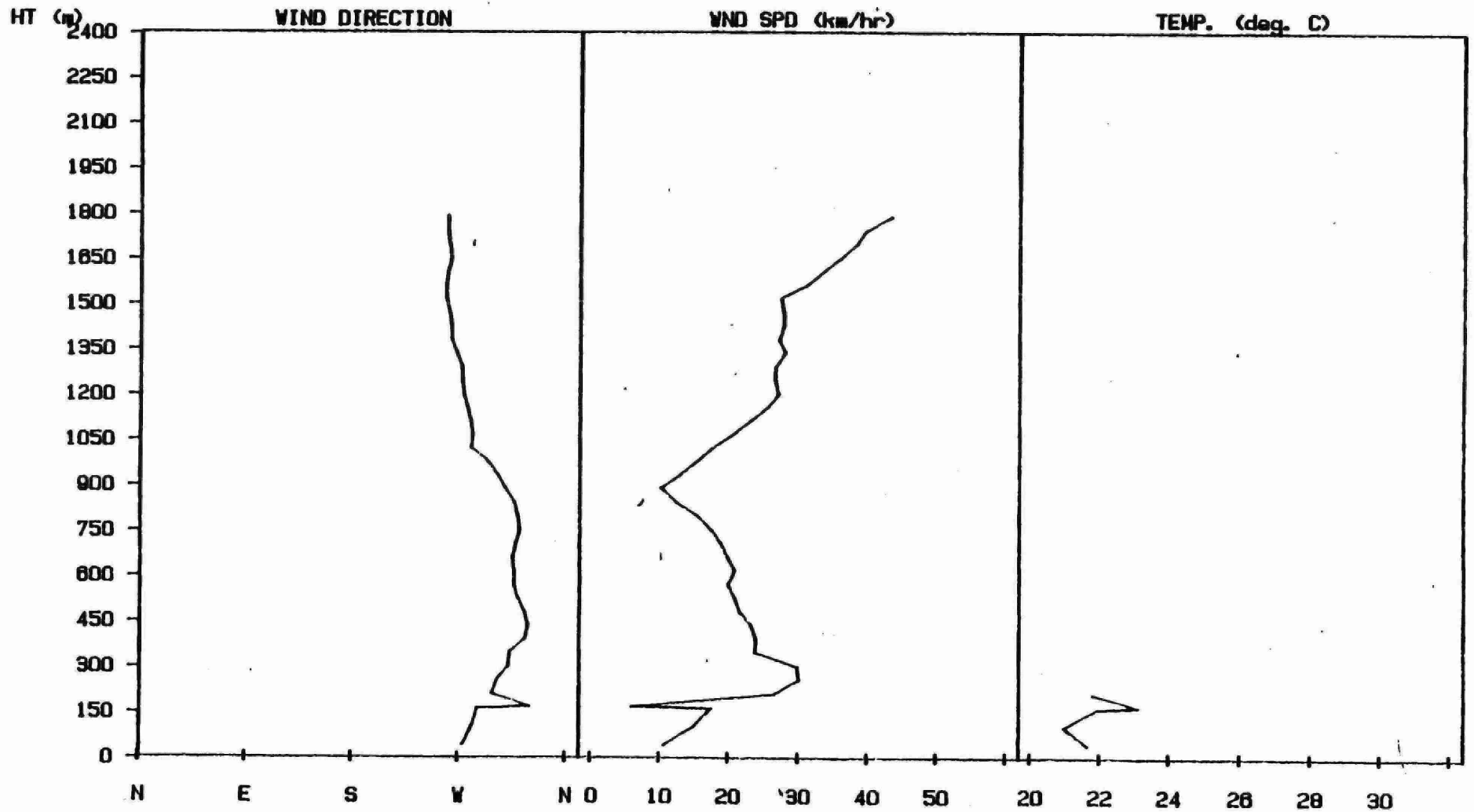


DOUBLE THEODOLITE RUN

NAME: SARNIA_84_UA: 7041A, 7041B
LOC: COAST GUARD SITE
MET: BROKEN ALTOSTRATUS
ELEV. HT DIFF: 195.0, -.6 m.
A: BASE: 147.1 m.
B: BASE: 124.8 m.
REPORT TIME: 15 sec.

GND TEMP: 29.6 deg.C
BEARING : 298.0 deg.
BEARING : 116.0 deg.
A-B: 271.9m, 298.0 d

START: 84/07/04 10:09:49
SCAN : 15 sec.
SCAN : 15 sec.
ASCENT RATE: 9.0 m/sec

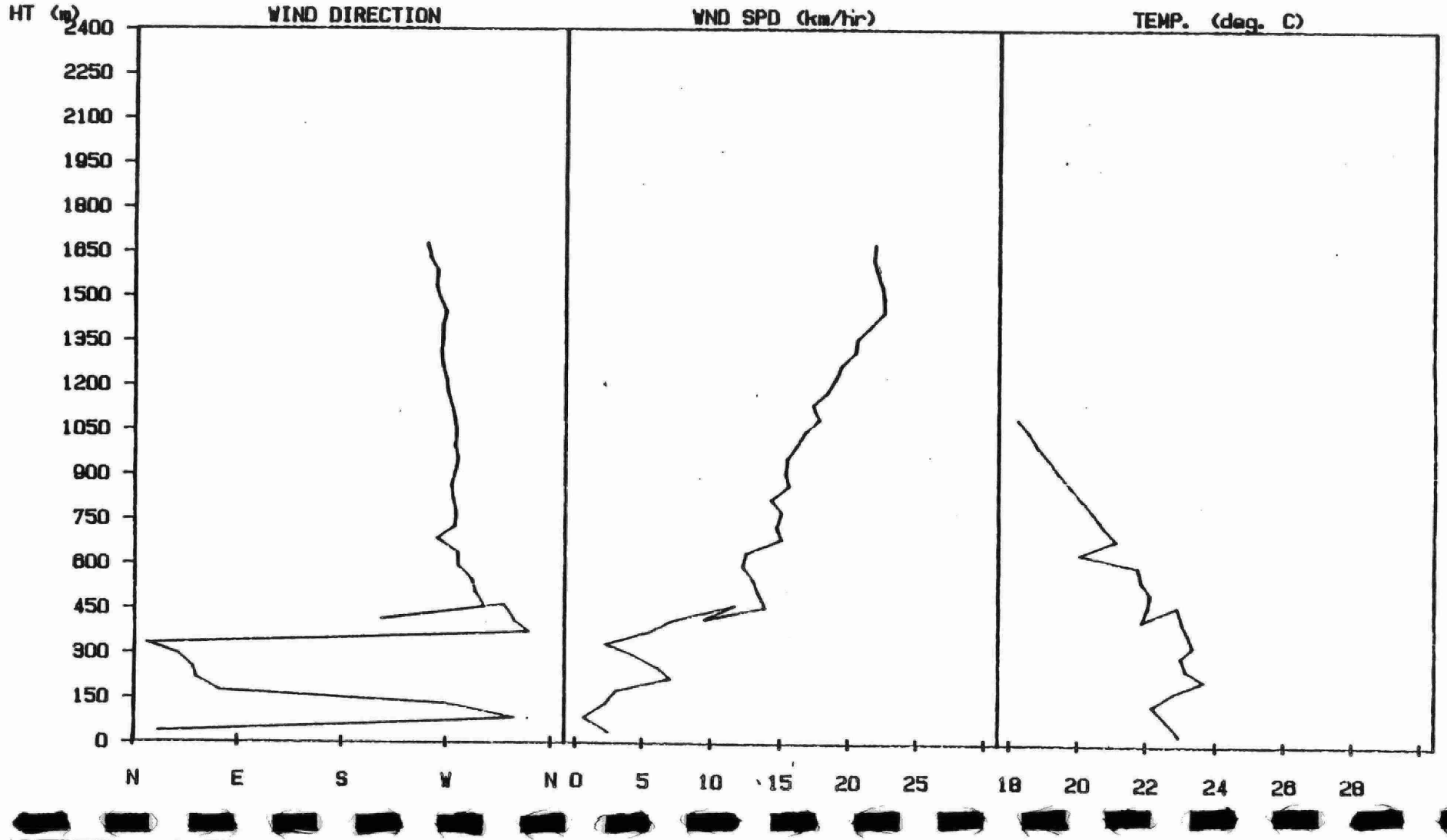


DOUBLE THEODOLITE RUN

NAME: SARNIA_84_UA: 7051A, 7051B
LOC: COAST GUARD SITE ...AZ-2
MET: ALTO STRATUS
ELEV, HT DIFF: 195.0, 1.6 m.
A: BASE: 145.9 m.
B: BASE: 152.6 m.
REPORT TIME: 15 sec.

GND TEMP: 29.6 deg.C
BEARING : 6.0 deg.
BEARING : 185.0 deg.
A-B: 298.6m, 5.5 d

START: 84/07/05 09:59:37
SCAN : 15 sec.
SCAN : 15 sec.
ASCENT RATE: 3.0 m/sec

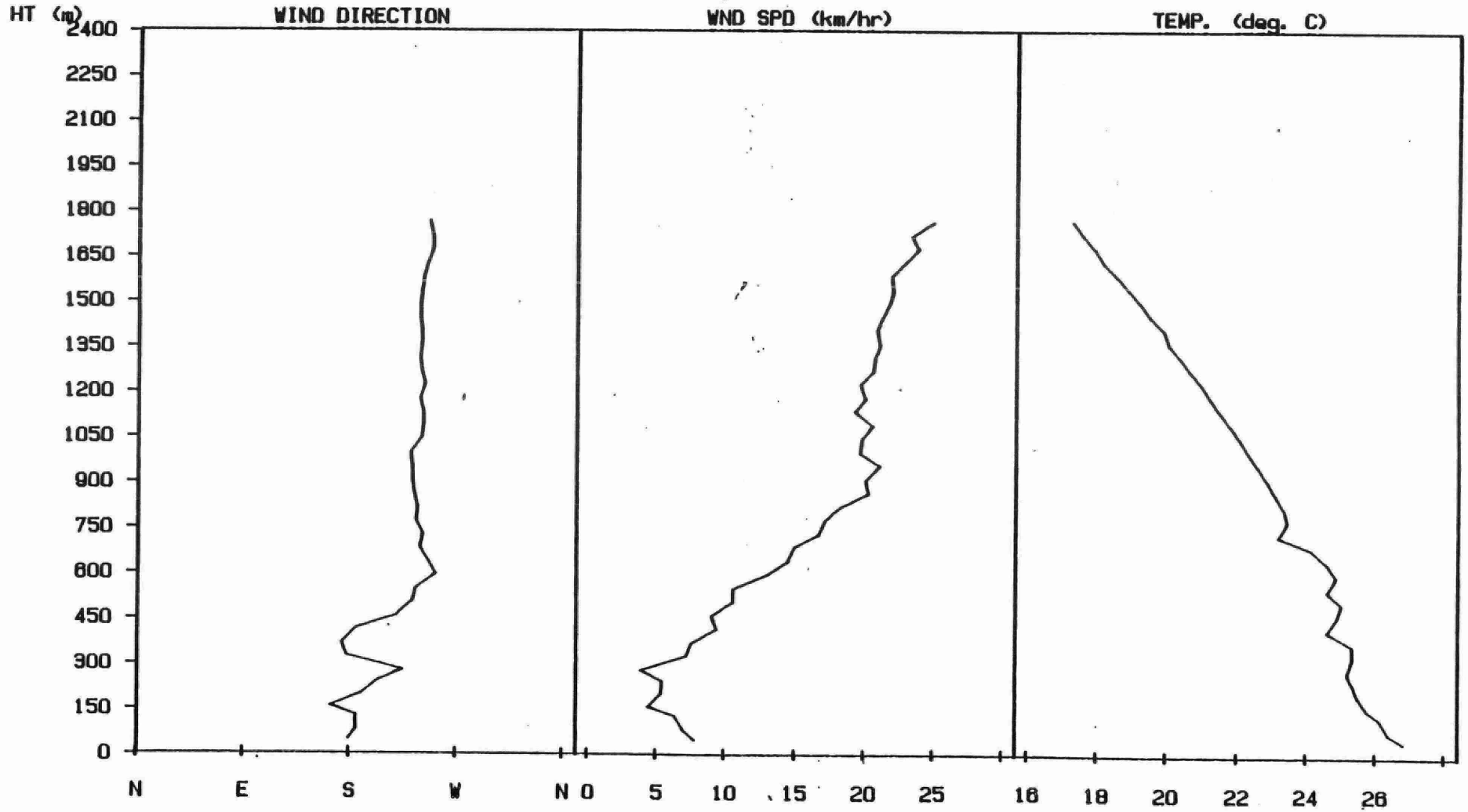


DOUBLE THEODOLITE RUN

NAME: SARNIA_84_UA: 7053A, 7053B
LOC: COAST GUARD SITE
MET: OVERCAST ALTO STRATUS
ELEV. HT DIFF: 195.0, 5.7 m.
A: BASE: 145.9 m.
B: BASE: 152.7 m.
REPORT TIME: 15 sec.

GND TEMP: 27.9 deg.C
BEARING : 6.0 deg.
BEARING : 185.0 deg.
A-B: 298.5m, 5.5 d

START: 84/07/05 11:59:52
SCAN : 15 sec.
SCAN : 15 sec.
ASCENT RATE: 3.0 m/sec

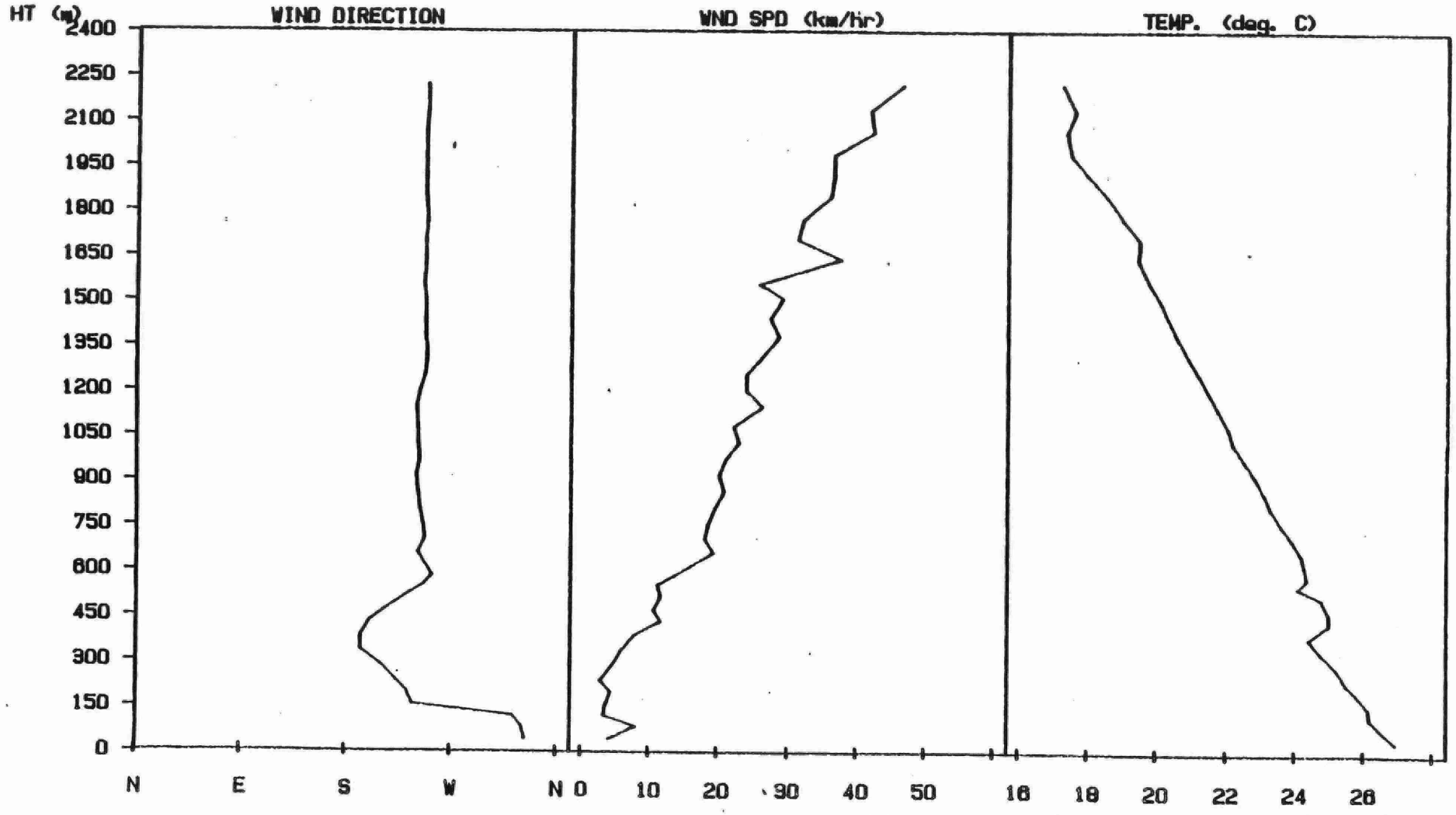


DOUBLE THEODOLITE RUN

NAME: SARNIA_94_UA: 7054A, 7054B
LOC: COAST GUARD SITE ... AZ-1
MET: OVERCAST ALTO STRATUS
ELEV, HT DIFF: 195.0, 4.9 m.
A: BASE: 145.9 m.
B: BASE: 152.7 m.
REPORT TIME: 15 sec.

GND TEMP: 28.0 deg.C
BEARING : 6.0 deg.
BEARING : 185.0 deg.
A-B: 298.6m, 5.5 d

START: 94/07/05 12:59:21
SCAN : 15 sec.
SCAN : 15 sec.
ASCENT RATE: 9.0 m/sec

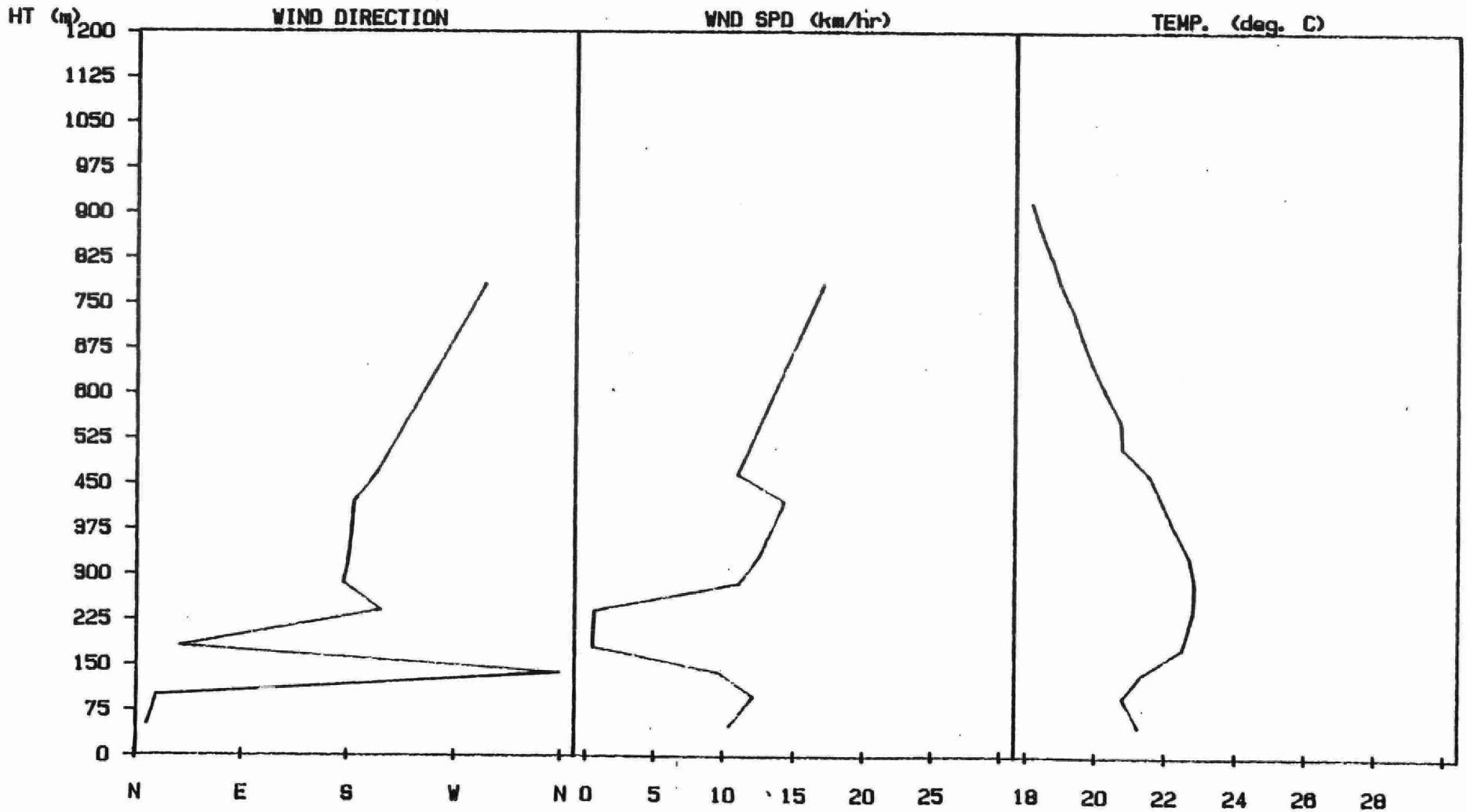


DOUBLE THEODOLITE RUN

NAME: SARNIA_84_UA: 7055A, 7055B
LOC: COAST GUARD SITE
MET: OVER CAST ALTO STRATUS
ELEV. HT DIFF: 195.0, 6.8 m.
A: BASE: 145.8 m.
B: BASE: 152.7 m.
REPORT TIME: 15 sec.

GND TEMP: 22.5 deg.C
BEARING : 6.0 deg.
BEARING : 185.0 deg.
A-B: 298.5m, 5.5 d

START: 84/07/05 14:03:36
SCAN : 15 sec.
SCAN : 15 sec.
ASCENT RATE: 9.0 m/sec



SINGLE THEODOLITE RUN

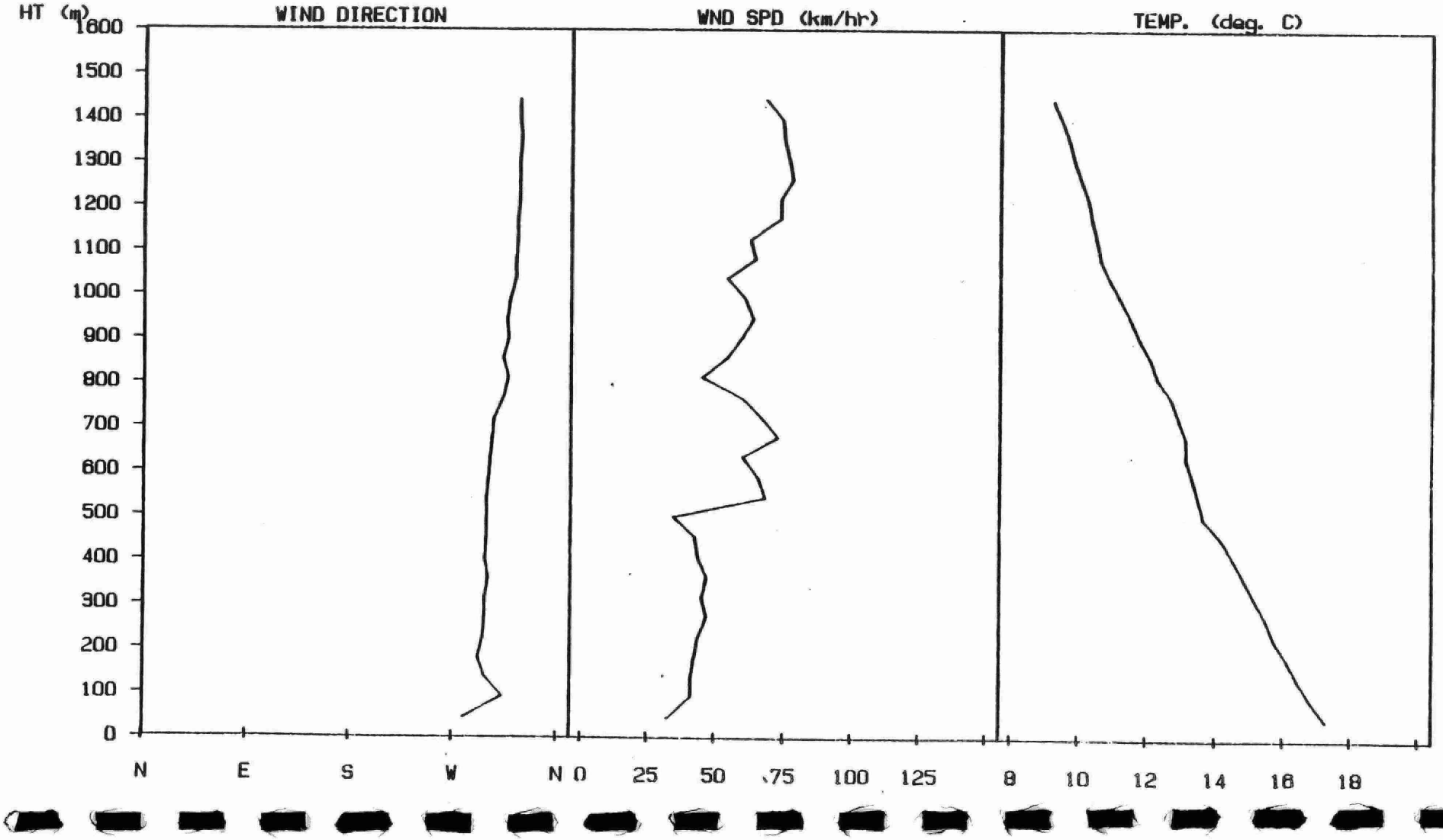
NAME: SARNIA_84_UA: 7072A
LOC: COAST GURAD SITE
MET: BROKEN STRATACU STR WESTERLIES
ELEV: 195.0 m.
BASE: 146.1 m.

GND TEMP: 18.3 deg.C
BEARING : 6.0 deg.

START: 84/07/07 11:03:04
SCAN : 15 sec.

REPORT TIME: 15 sec.

ASCENT RATE: 3.0 m/sec

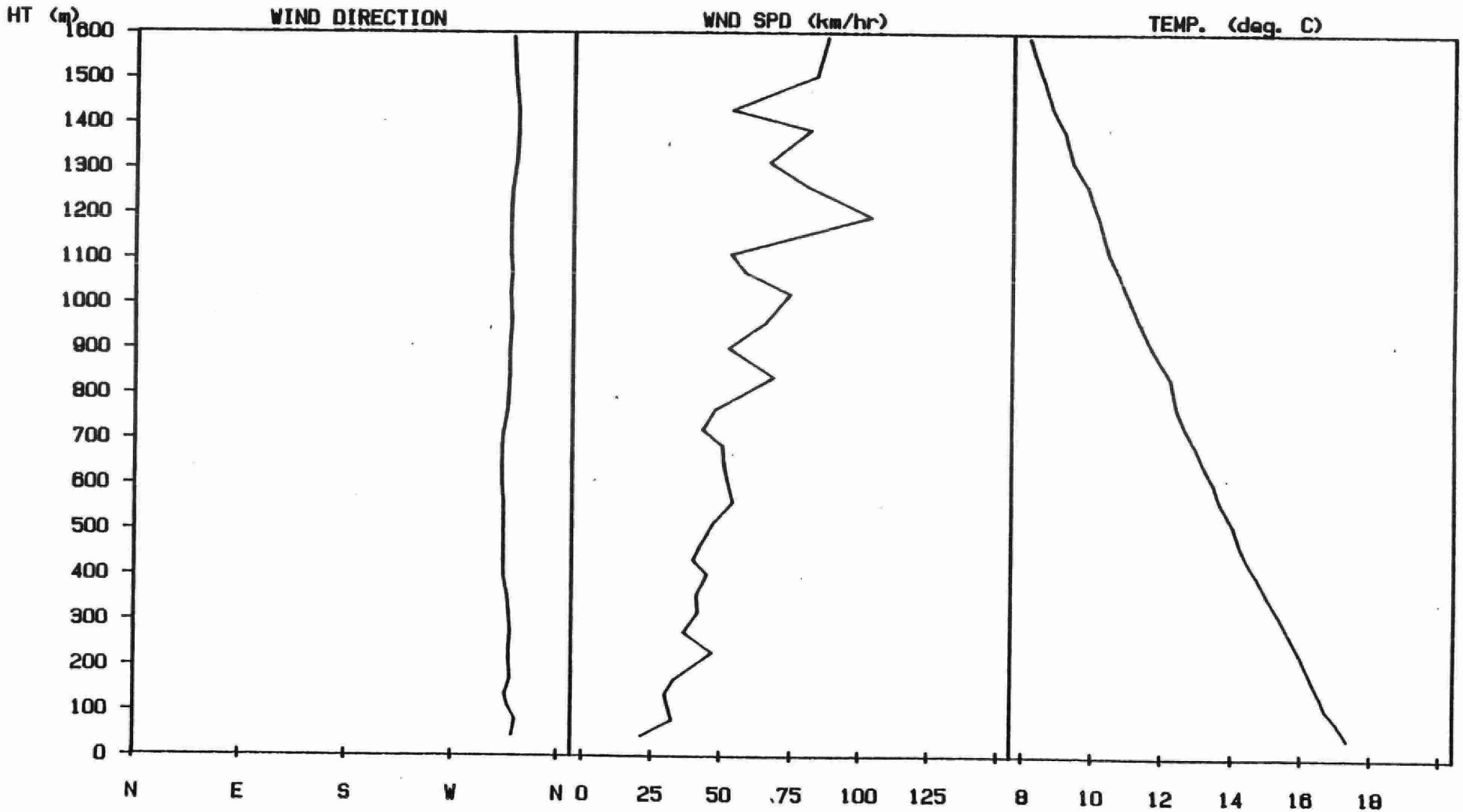


DOUBLE THEODOLITE RUN

NAME: SARNIA_84_UA: 7073A, 7073B
LOC: COAST GUARD SITE ... AZ -1
MET: OVERCAST STRATACU WESTERLIES
ELEV. HT DIFF: 195.0, .9 m.
A: BASE: 146.1 m.
B: BASE: 152.7 m.
REPORT TIME: 15 sec.

GND TEMP: 17.5 deg.C
BEARING : 8.0 deg.
BEARING : 185.0 deg.
A-B: 298.7m, 5.5 d

START: 84/07/07 12:59:18
SCAN : 15 sec.
SCAN : 15 sec.
ASCENT RATE: 3.0 m/sec

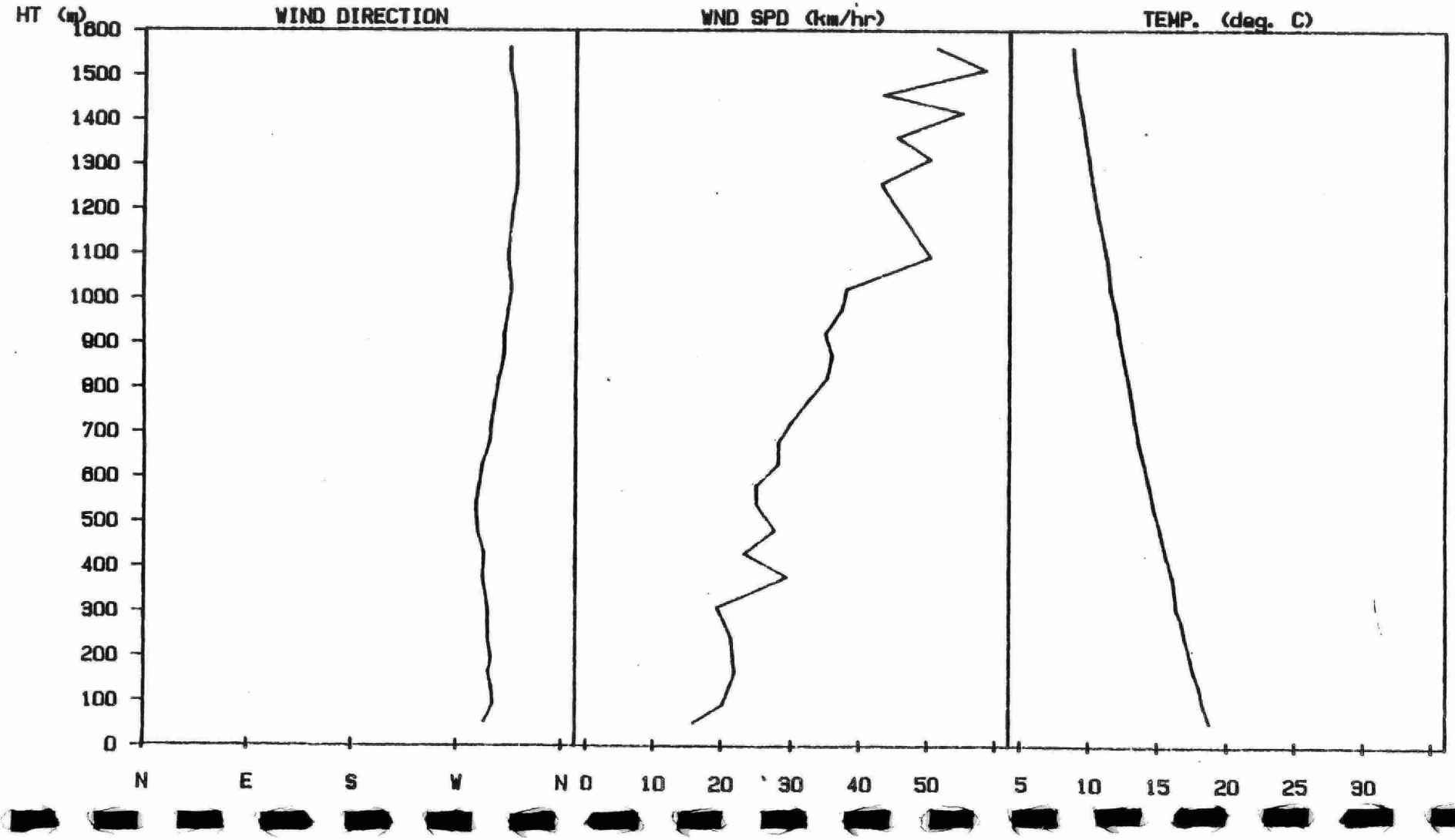


DOUBLE THEODOLITE RUN

NAME: SARNIA_84_UA: 7074A, 7074B
LOC: COAST GUARD SITE ... AZ-1
MET: OVERCAST STRATACU WESTERLIE
ELEV. HT DIFF: 195.0, .5 m.
A: BASE: 145.9 m.
B: BASE: 152.8 m.
REPORT TIME: 15 sec.

GND TEMP: 19.5 deg.C
BEARING : 6.0 deg.
BEARING : 185.0 deg.
A-B: 298.5m. 5.5 d

START: 84/07/07 15:00:40
SCAN : 15 sec.
SCAN : 15 sec.
ASCENT RATE: 9.0 m/sec



SINGLE THEODOLITE RUN

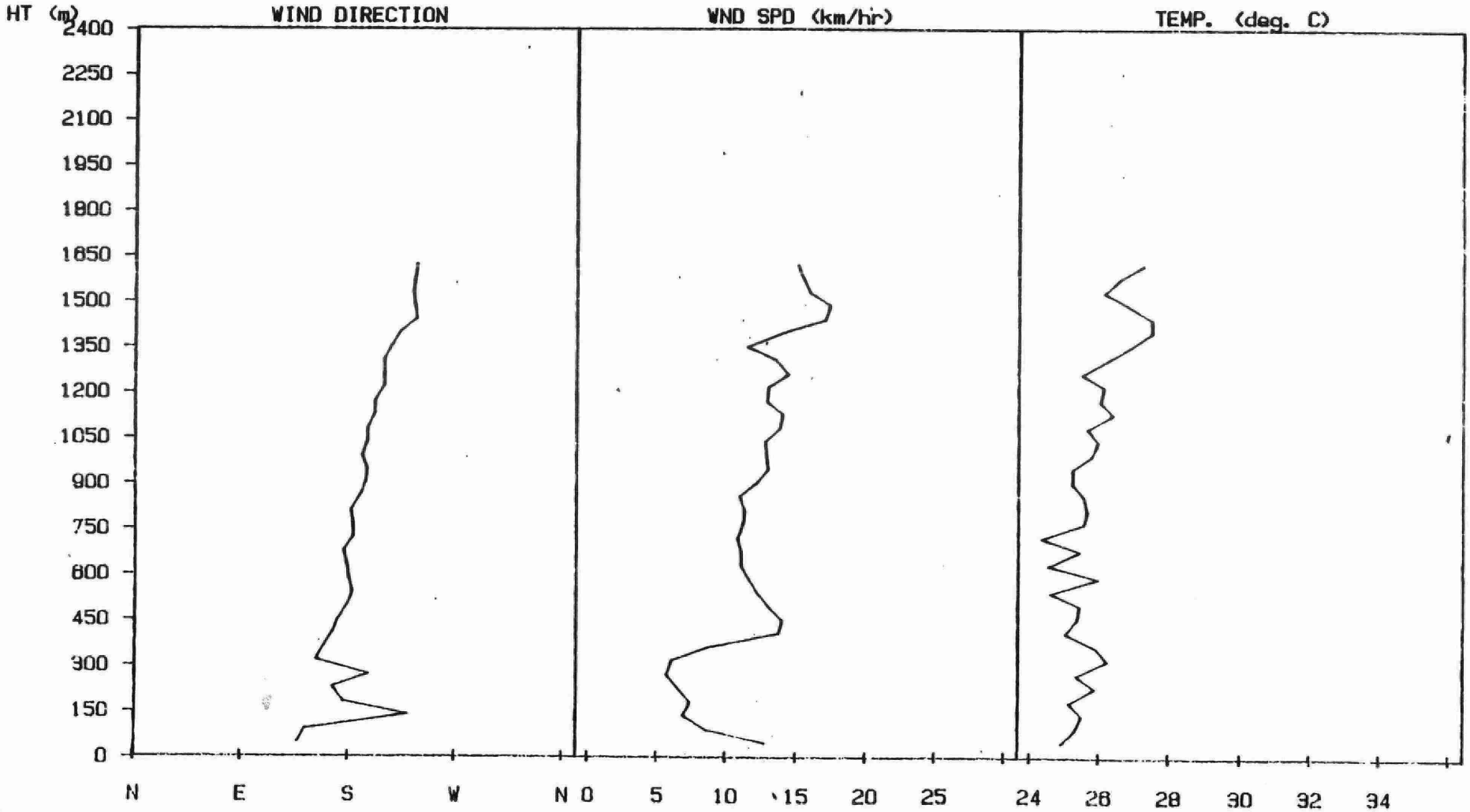
NAME: SARNIA_84_UA: 70811A
LOC: COAST GUARD SITE
MET: SCATT ALTO STRATUS & CIRRUS
ELEV: 195.0 m.
BASE: 146.8 m.

GND TEMP: 25.0 deg.C
BEARING : 298.0 deg.

START: 84/07/08 18:00:01
SCAN : 15 sec.

REPORT TIME: 15 sec.

ASCENT RATE: 3.0 m/sec



SINGLE THEODOLITE RUN

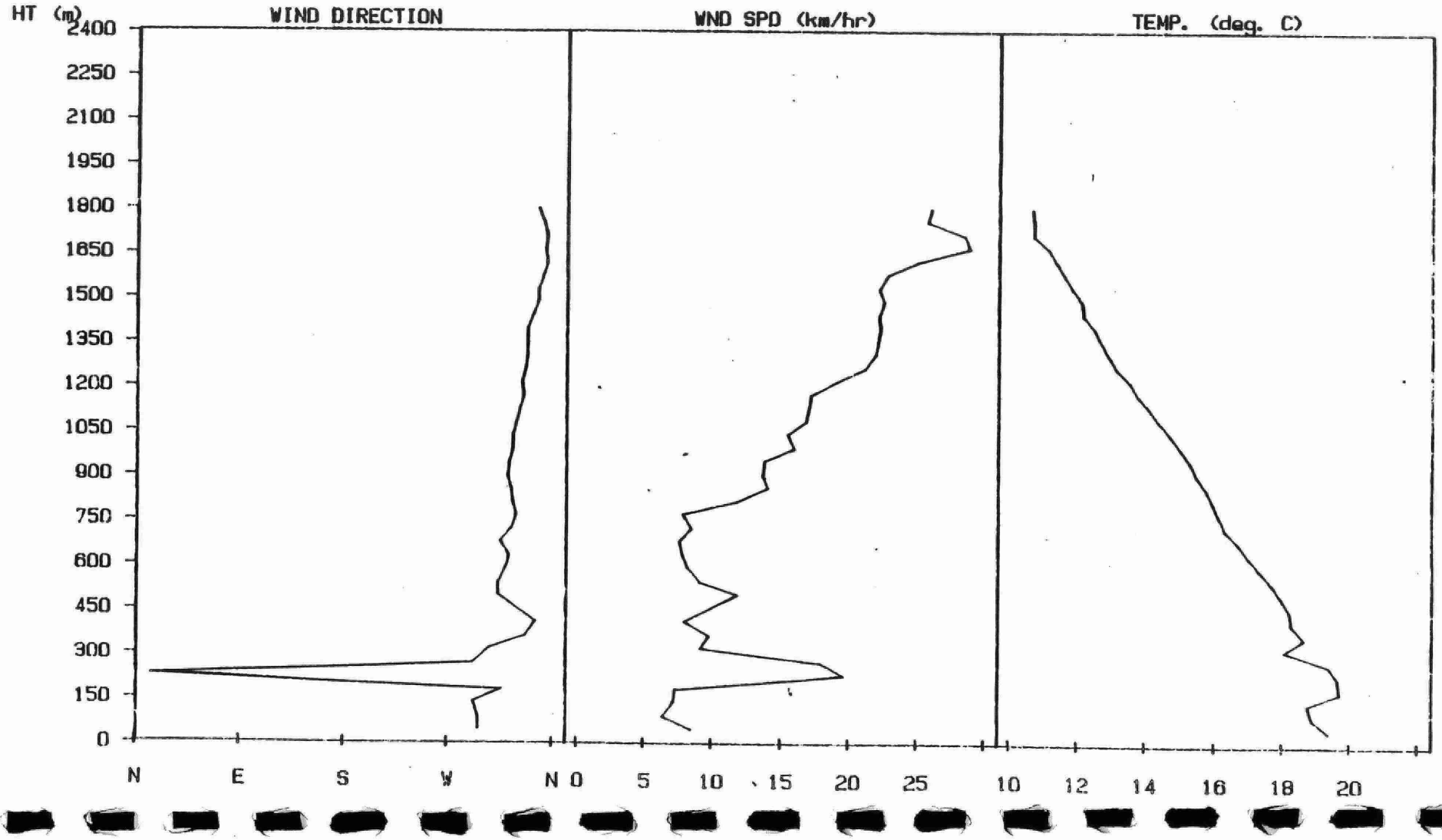
NAME: SARNIA_84_UA: 7081A
LOC: COAST GUARD SITE
MET: BEHIND RIDGE CLEAR & CALM
ELEV: 195.0 m.
BASE: 147.1 m.

GND TEMP: 20.3 deg.C
BEARING : 296.0 deg.

START: 84/07/08 09:00:29
SCAN : 15 sec.

REPORT TIME: 15 sec.

ASCENT RATE: 3.0 m/sec



SINGLE THEODOLITE RUN

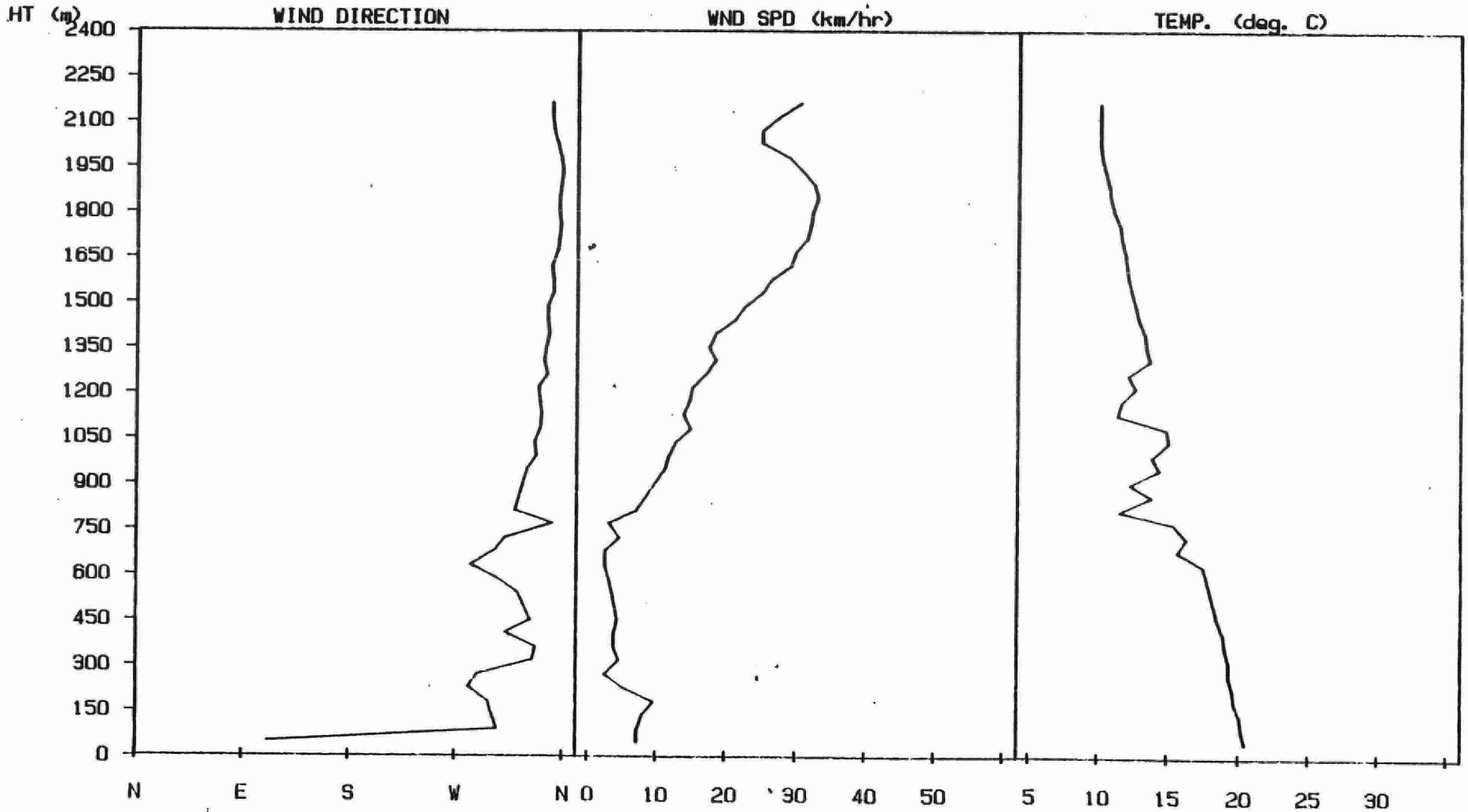
NAME: SARNIA_84_UA: 7082A
LOC: COAST GUARD SITE
MET: CLEAR & CALM
ELEV: 195.0 m.
BASE: 146.9 m.

GND TEMP: 21.1 deg.C
BEARING : 298.0 deg.

START: 84/07/08 10:01:01
SCAN : 15 sec.

REPORT TIME: 15 sec.

ASCENT RATE: 3.0 m/sec



SINGLE THEODOLITE RUN

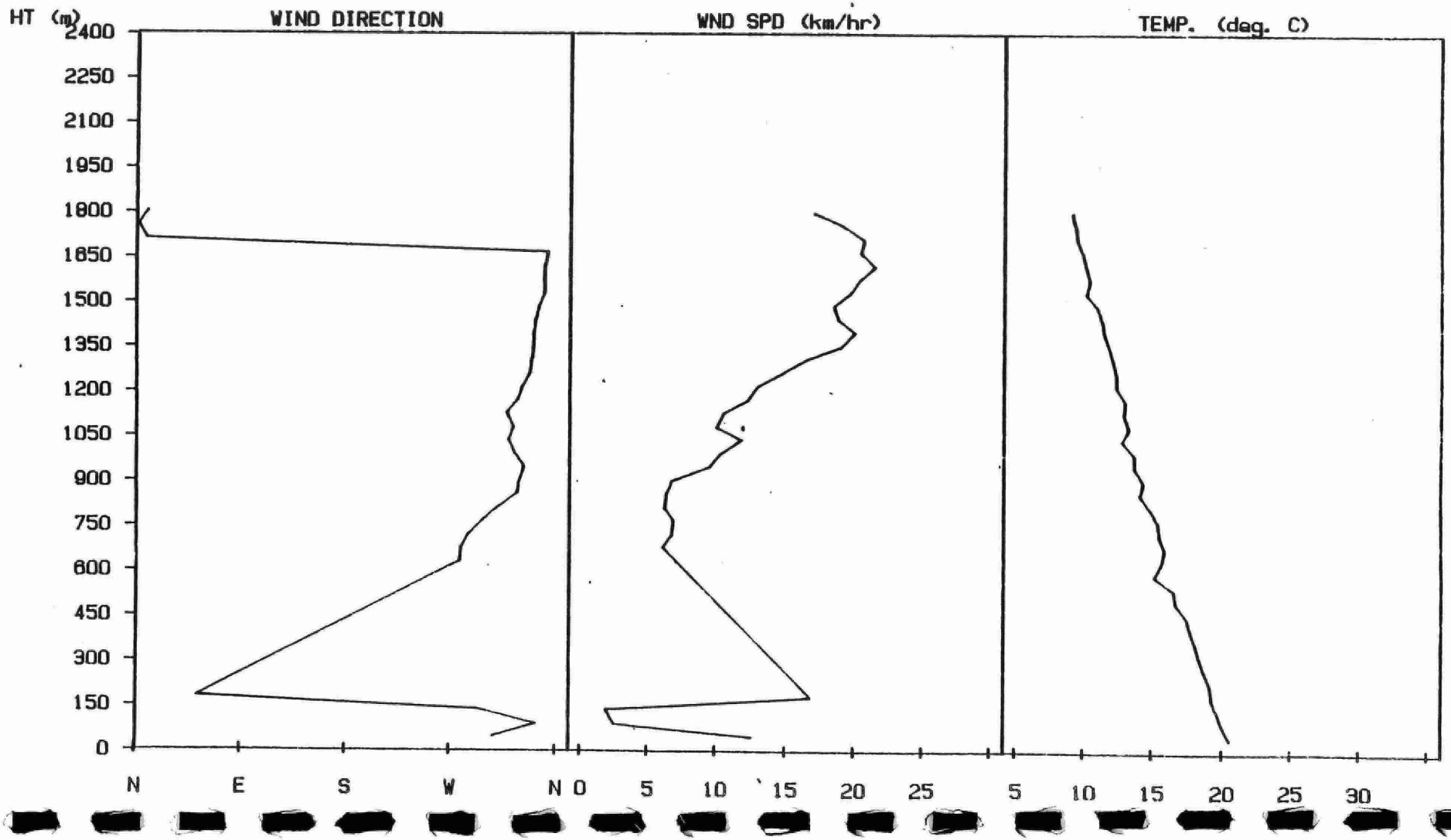
NAME: SARNIA_84_UA: 7083A
LOC: COAST GUARD SITE
MET: CLEAR & CALM
ELEV: 195.0 m.
BASE: 147.0 m.

GND TEMP: 21.6 deg.C
BEARING : 296.0 deg.

START: 84/07/08 11:00:03
SCAN : 15 sec.

REPORT TIME: 15 sec.

ASCENT RATE: 3.0 m/sec

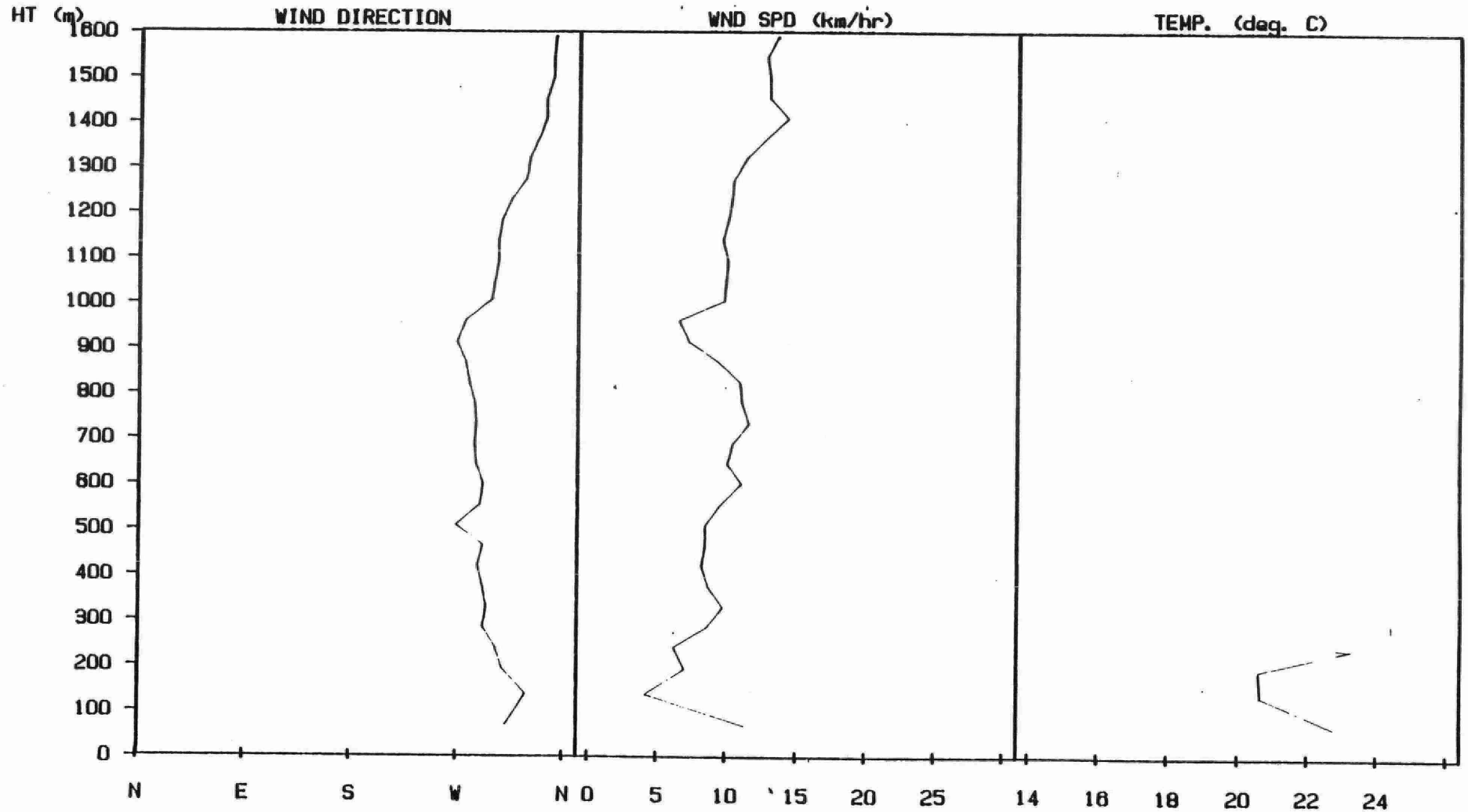


DOUBLE THEODOLITE RUN

NAME: SARNIA_84_UA: 7084A, 7084B
LOC: COAST GUARD SITE
MET: CLEAR CALM SCATTERED CUMULUS
ELEV, HT DIFF: 195.0, -2.2 m.
A: BASE: 147.1 m.
B: BASE: 124.8 m.
REPORT TIME: 15 sec.

GND TEMP: 22.6 deg.C
BEARING : 298.0 deg.
BEARING : 118.0 deg.
A-B: 271.9m, 298.0 d

START: 84/07/08 11:59:57
SCAN : 15 sec.
SCAN : 15 sec.
ASCENT RATE: 3.0 m/sec



SINGLE THEODOLITE RUN

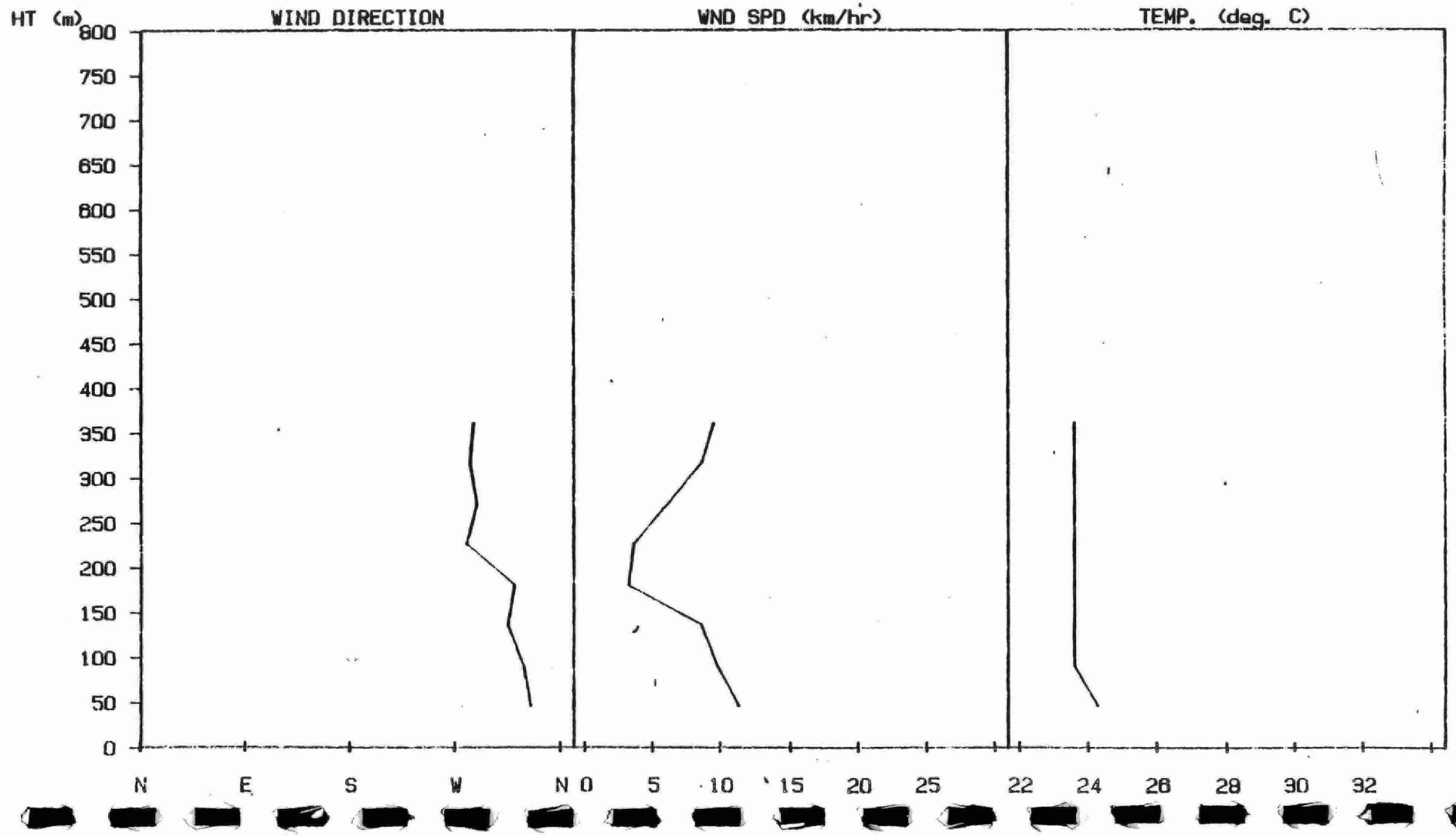
NAME: SARNIA_84_UA: 7085A
LOC: COAST GUARD SITE
MET: BROKEN FR WX CU LIGHT N WINDS
ELEV: 195.0 m.
BASE: 146.9 m.

GND TEMP: 29.8 deg.C
BEARING : 296.0 deg.

START: 84/07/08 12:57:19
SCAN : 15 sec.

REPORT TIME: 15 sec.

ASCENT RATE: 3.0 m/sec

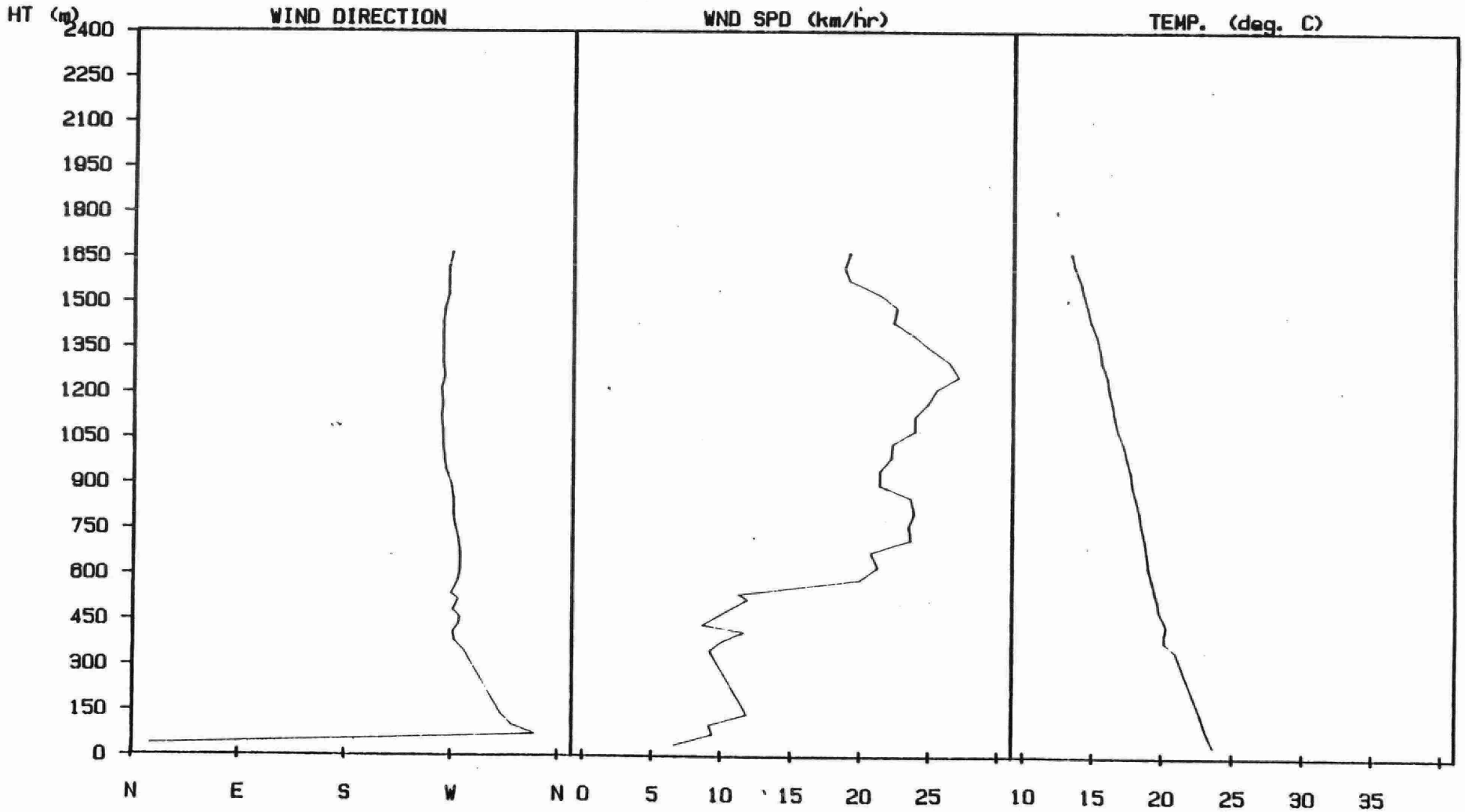


DOUBLE THEODOLITE RUN

NAME: SARNIA_84_UA: 7086A, 7086B
LOC: COAST GUARD SITE
MET: CALM SCATTERED CUMULUS
ELEV. HT DIFF: 195.0, 8.1 m.
A: BASE: 148.7 m.
B: BASE: 124.8 m.
REPORT TIME: 15 sec.

GND TEMP: 24.6 deg.C
BEARING : 298.0 deg.
BEARING : 118.0 deg.
A-B: 271.5m, 298.0 d

START: 84/07/08 14:00:22
SCAN : 15 sec.
SCAN : 15 sec.
ASCENT RATE: 3.0 m/sec



SINGLE THEODOLITE RUN

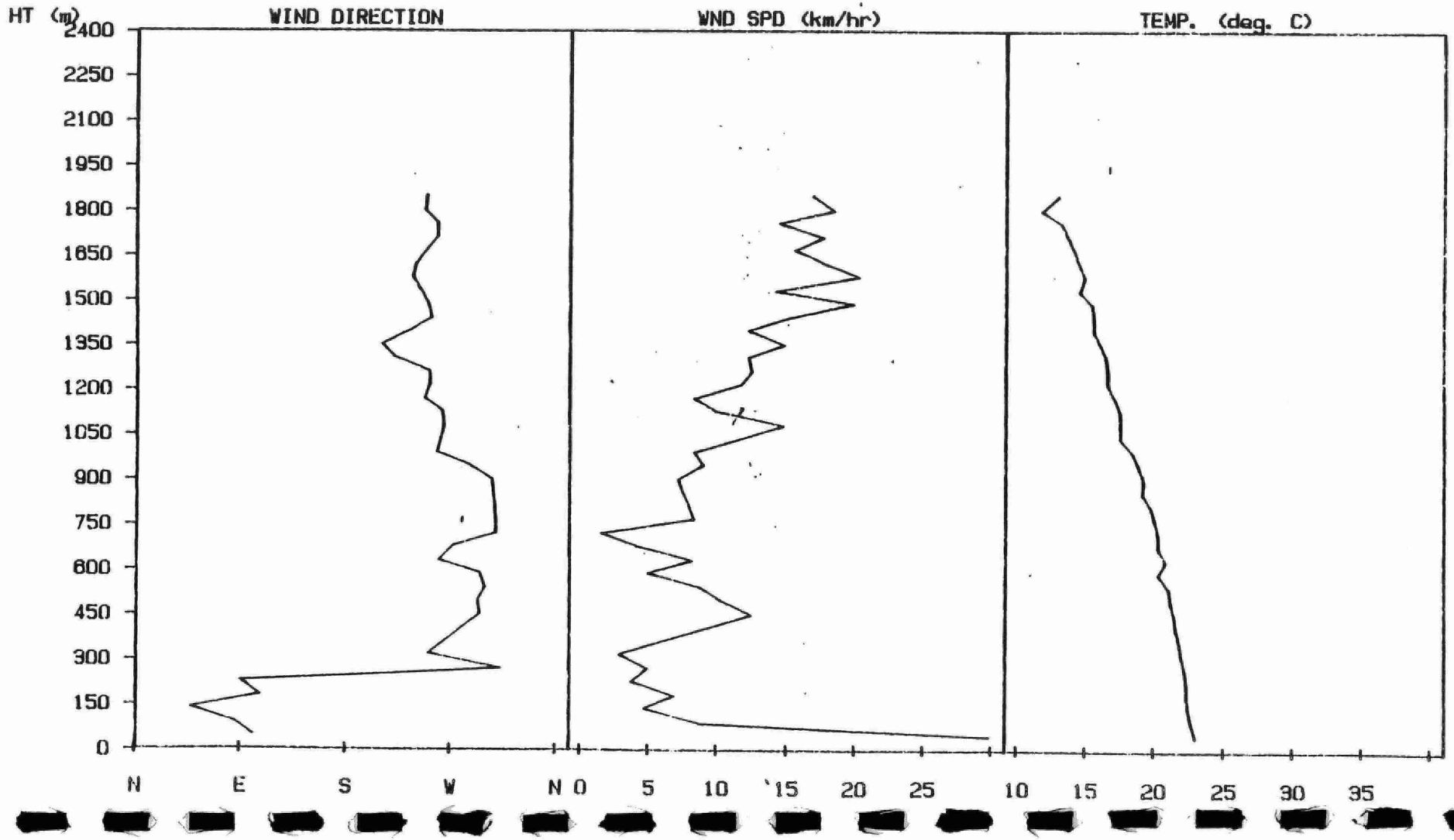
NAME: SARNIA_84_UA: 7087A
LOC: COAST GUARD SITE
MET: CALM SCATTERED CUMULUS
ELEV: 195.0 m.
BASE: 146.9 m.

GND TEMP: 24.1 deg.C
BEARING : 296.0 deg.

START: 84/07/08 14:59:46
SCAN : 15 sec.

REPORT TIME: 15 sec.

ASCENT RATE: 3.0 m/sec

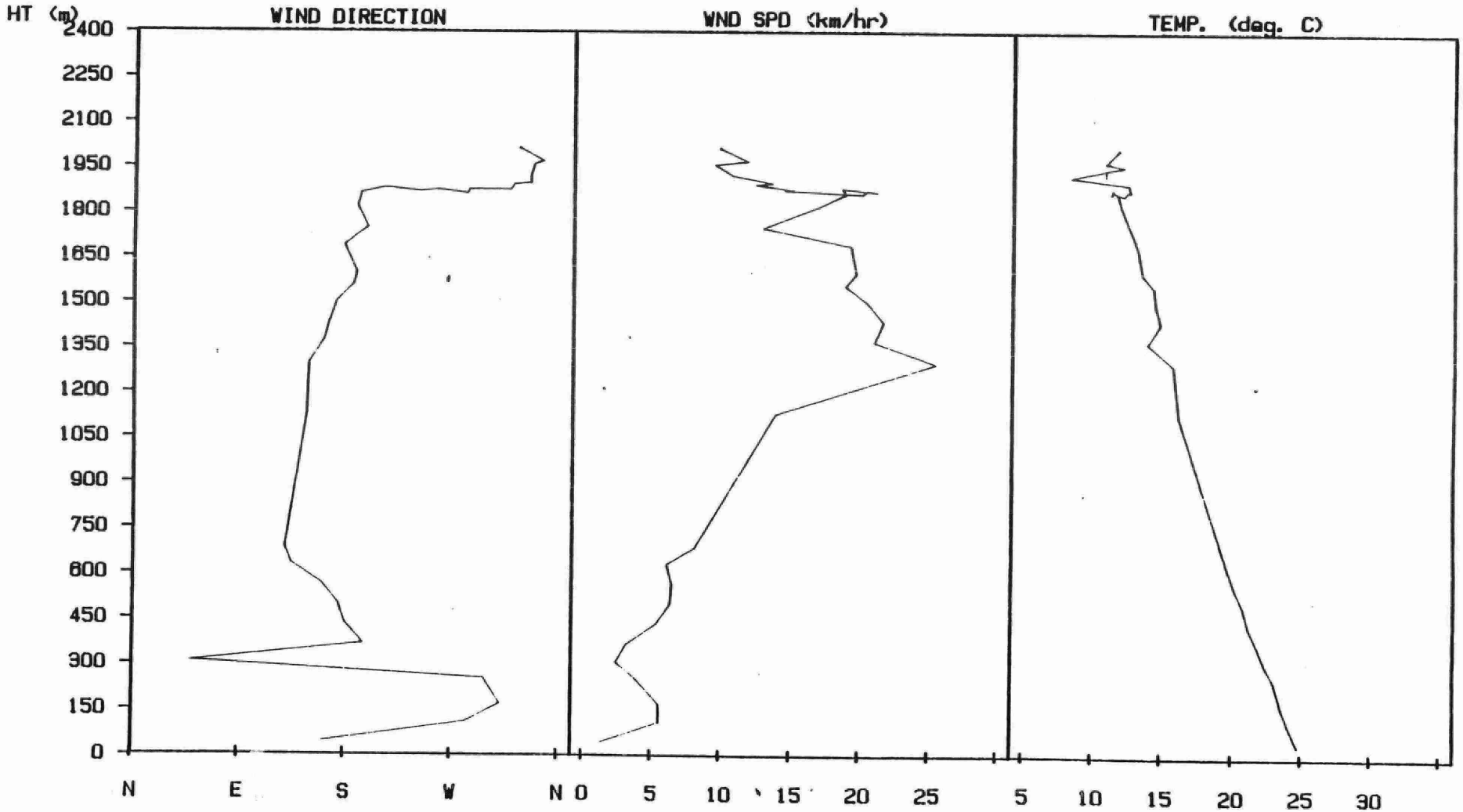


DOUBLE THEODOLITE RUN

NAME: SARNIA_84_JA: 7088A, 7088B
LOC: COAST GUARD SITE
MET: CALM SCATTERED CUMULUS
ELEV, HT DIFF: 195.0, 11.1 m.
A: BASE: 146.3 m.
B: BASE: 124.7 m.
REPORT TIME: 15 sec.

GND TEMP: 27.1 deg.C
BEARING : 298.0 deg.
BEARING : 116.0 deg.
A-B: 271.1m, 298.0 d

START: 84/07/08 15:59:07
SCAN : 15 sec.
SCAN : 15 sec.
ASCENT RATE: 3.0 m/sec

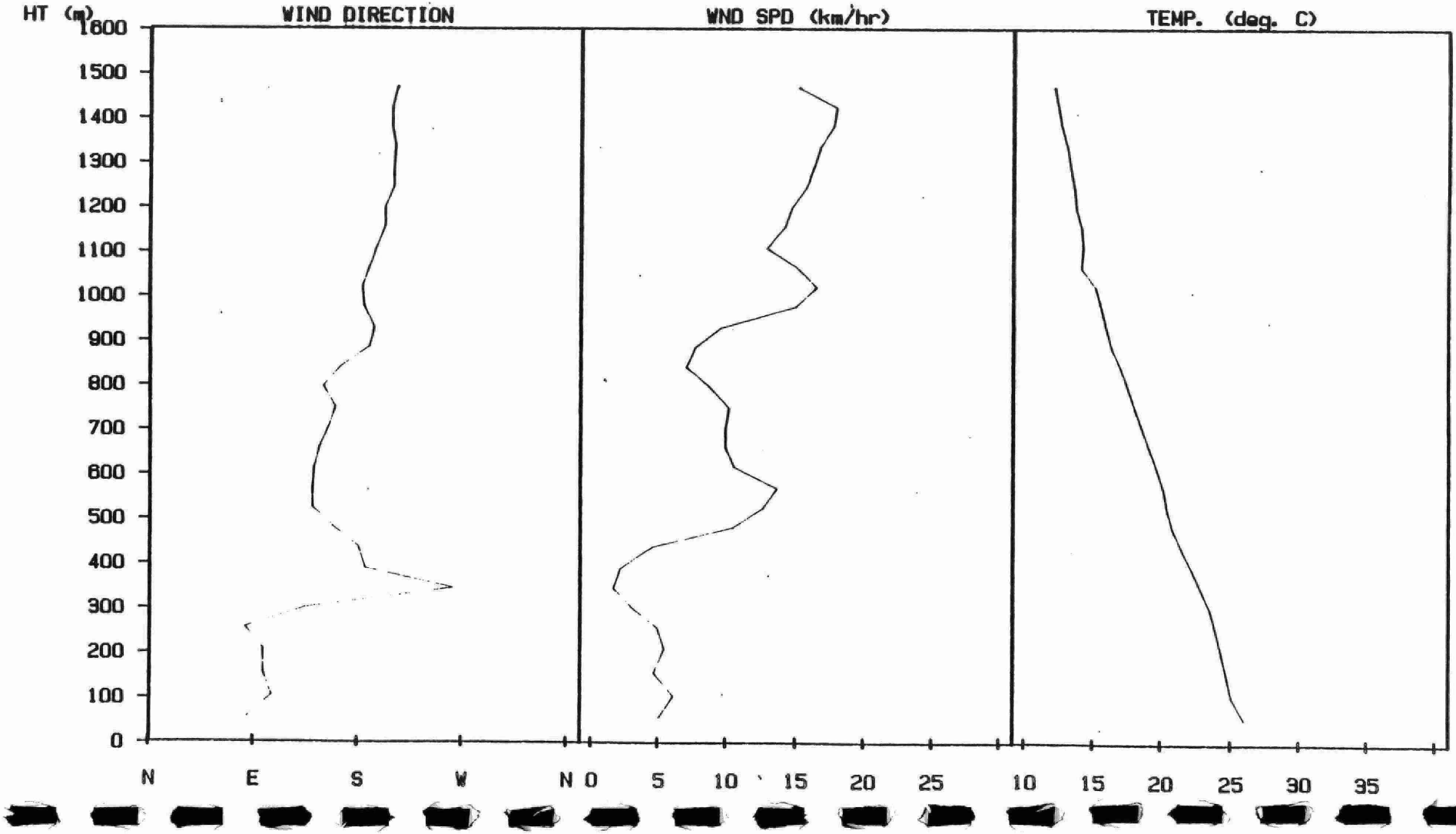


DOUBLE THEODOLITE RUN

NAME: SARNIA_84_UA: 7089A, 7089B
LOC: COAST GUARD SITE
MET: SAME AS 7088
ELEV. HT DIFF: 195.0, 3.3 m.
A: BASE: 146.9 m.
B: BASE: 124.7 m.
REPORT TIME: 15 sec.

GND TEMP: 28.4 deg.C
BEARING : 298.0 deg.
BEARING : 116.0 deg.
A-B: 271.6m, 298.0 d

START: 84/07/08 16:59:25
SCAN : 15 sec.
SCAN : 15 sec.
ASCENT RATE: 3.0 m/sec

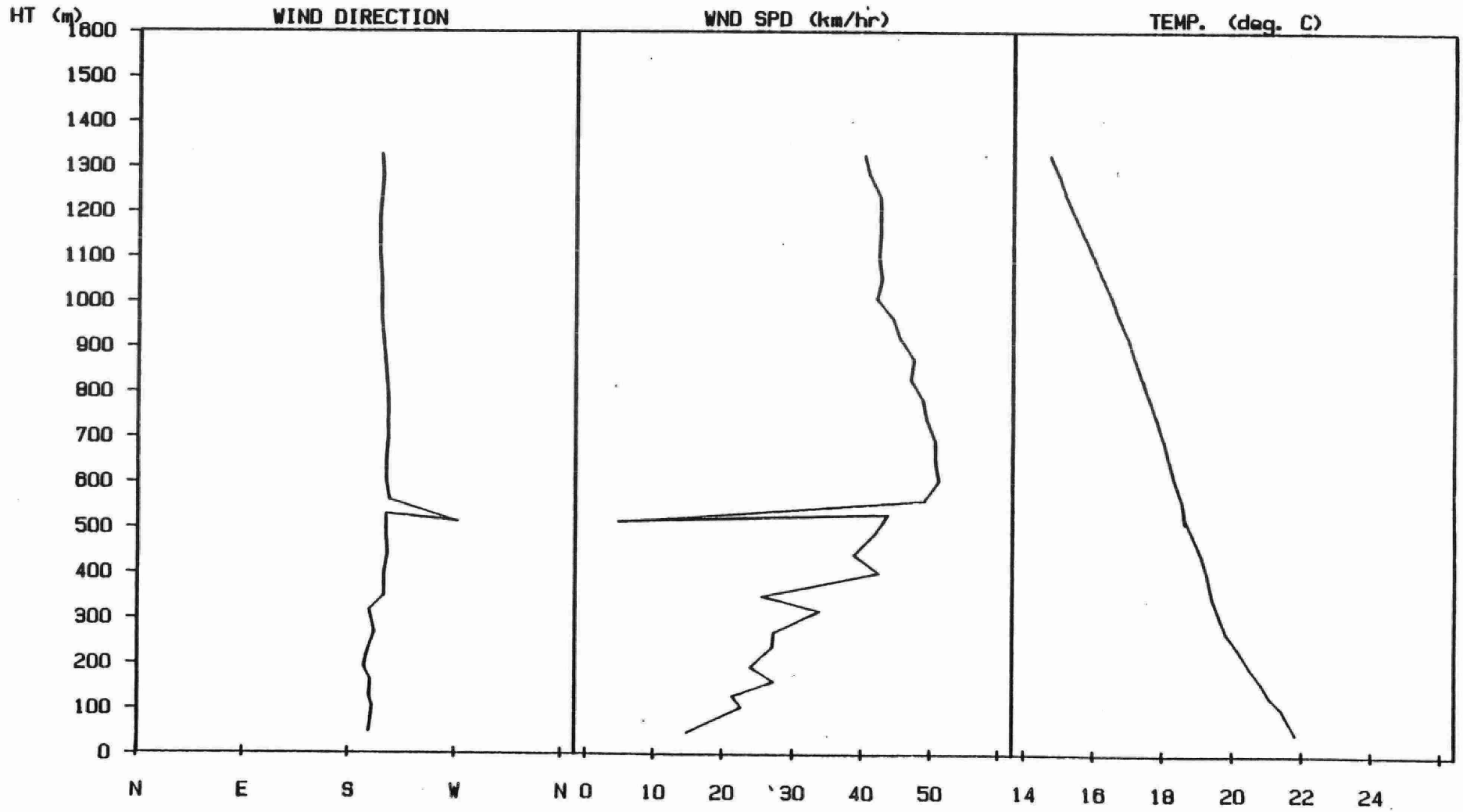


DOUBLE THEODOLITE RUN

NAME: SARNIA_84_UA: 7091A, 7091B
LOC: COAST GUARD SITE....AZ +2
MET: OVERCAST ALTOSTRATUS S WIND
ELEV, HT DIFF: 195.0, .4 m.
A: BASE: 147.0 m.
B: BASE: 124.7 m.
REPORT TIME: 15 sec.

GND TEMP: 22.0 deg.C
BEARING : 298.0 deg.
BEARING : 116.0 deg.
A-B: 271.6m, 298.0 d

START: 84/07/09 09:59:59
SCAN : 15 sec.
SCAN : 15 sec.
ASCENT RATE: 3.0 m/sec

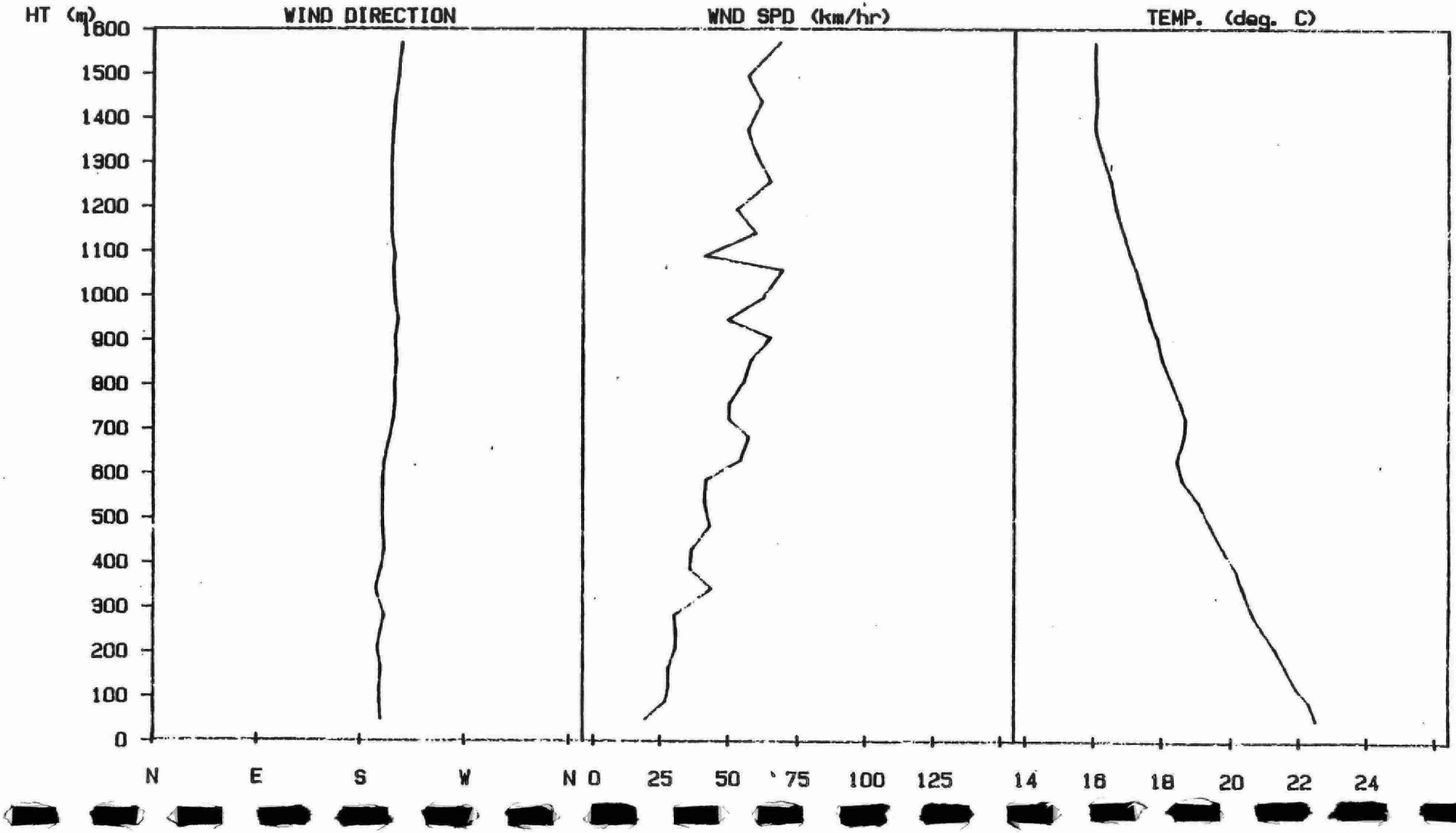


DOUBLE THEODOLITE RUN

NAME: SARNIA_84_UA: 7092A, 7092B
LOC: COAST GUARD SITE ..... AZ +9
MET: ALTOSTRATUS OVERCAST S WINDS
ELEV, HT DIFF: 195.0, .7 m.
A: BASE: 145.0 m.
B: BASE: 124.7 m.
REPORT TIME: 15 sec.

GND TEMP: 22.9 deg.C
BEARING : 307.0 deg.
BEARING : 116.0 deg.
A-B: 288.5m, 301.9 d

START: 84/07/09 11:59:59
SCAN : 15 sec.
SCAN : 15 sec.
ASCENT RATE: 3.0 m/sec



SINGLE THEODOLITE RUN

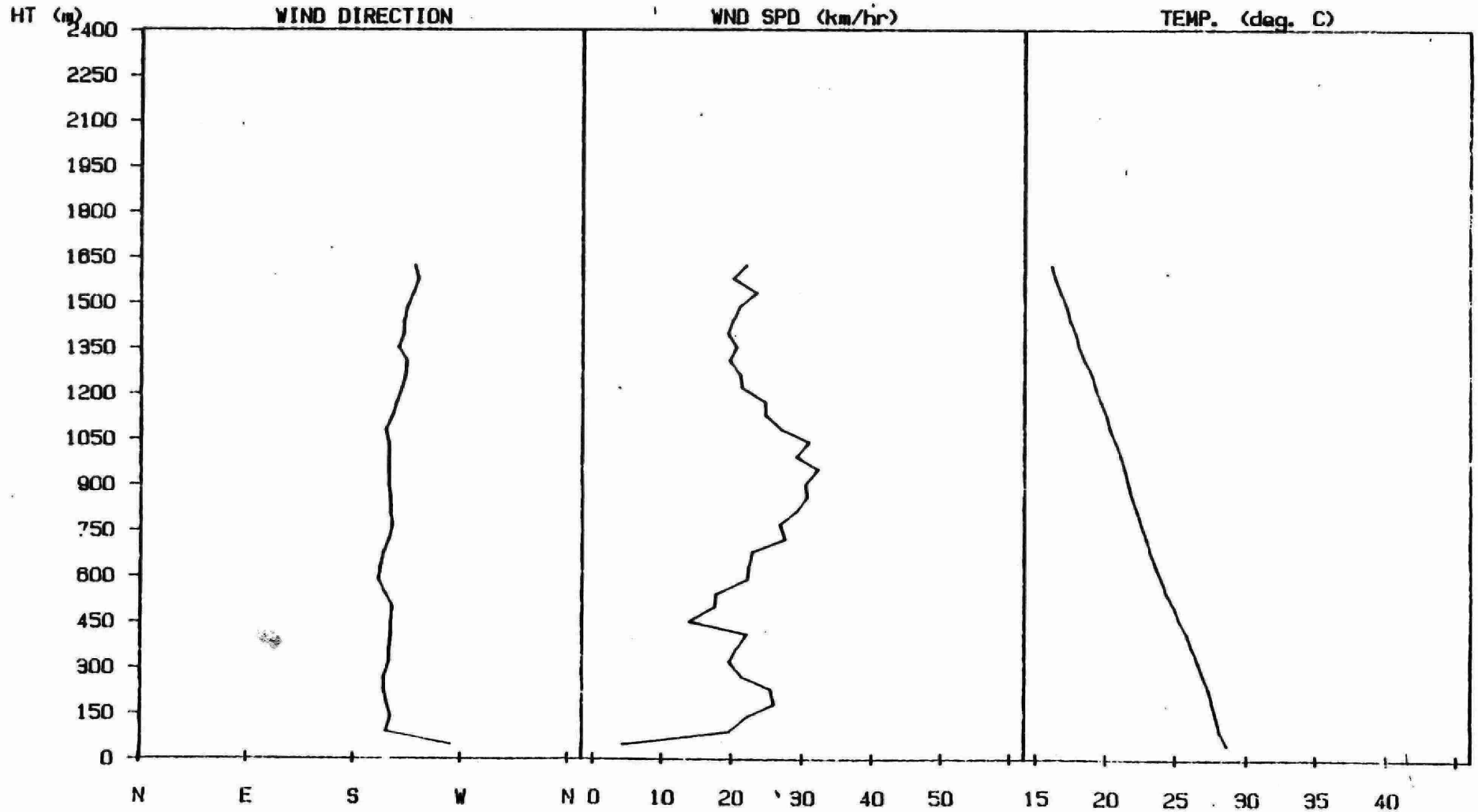
NAME: SARNIA_84_UA: 71310A
LOC: COAST GUARD SITE
MET: SCAT FR WX CU S WINDS
ELEV: 195.0 m.
BASE: 146.0 m.

GND TEMP: 29.2 deg.C
BEARING : 8.0 deg.

START: 84/07/13 18:01:01
SCAN : 15 sec.

REPORT TIME: 15 sec.

ASCENT RATE: 3.0 m/sec

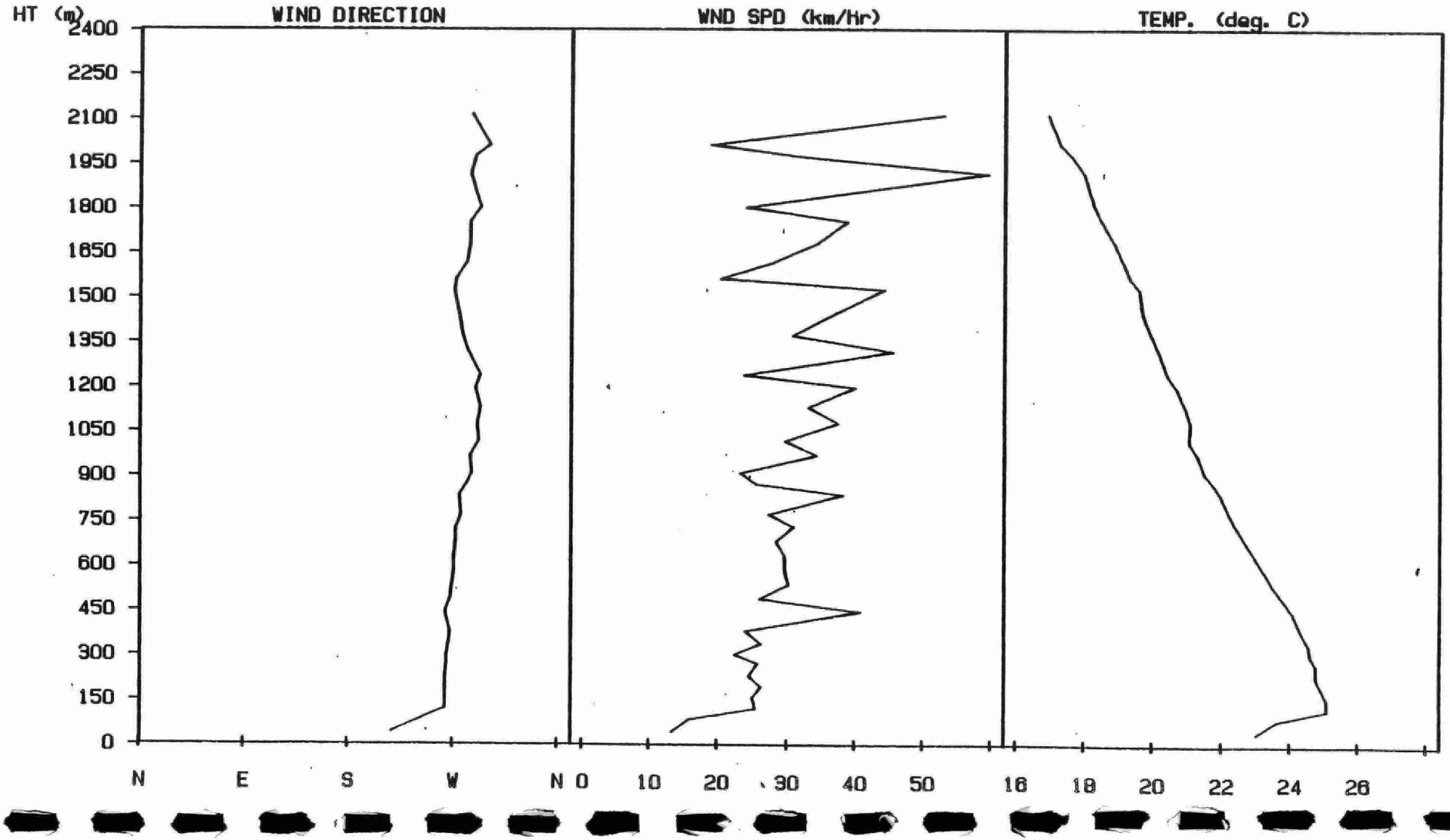


DOUBLE THEODOLITE RUN

NAME: SARNIA_84_JA: 7131A, 7131B
LOC: COAST GUARD SITE
MET: SCATTERED ALTOCUM CALM
ELEV, HT DIFF: 195.0, 5.9 m.
A: BASE: 145.8 m.
B: BASE: 152.7 m.
REPORT TIME: 15 sec.

GND TEMP: 23.5 deg.C
BEARING : 6.0 deg.
BEARING : 185.0 deg.
A-B: 298.5m, 5.5 d

START: 84/07/13 10:01:05
SCAN : 15 sec.
SCAN : 15 sec.
ASCENT RATE: 3.0 m/sec

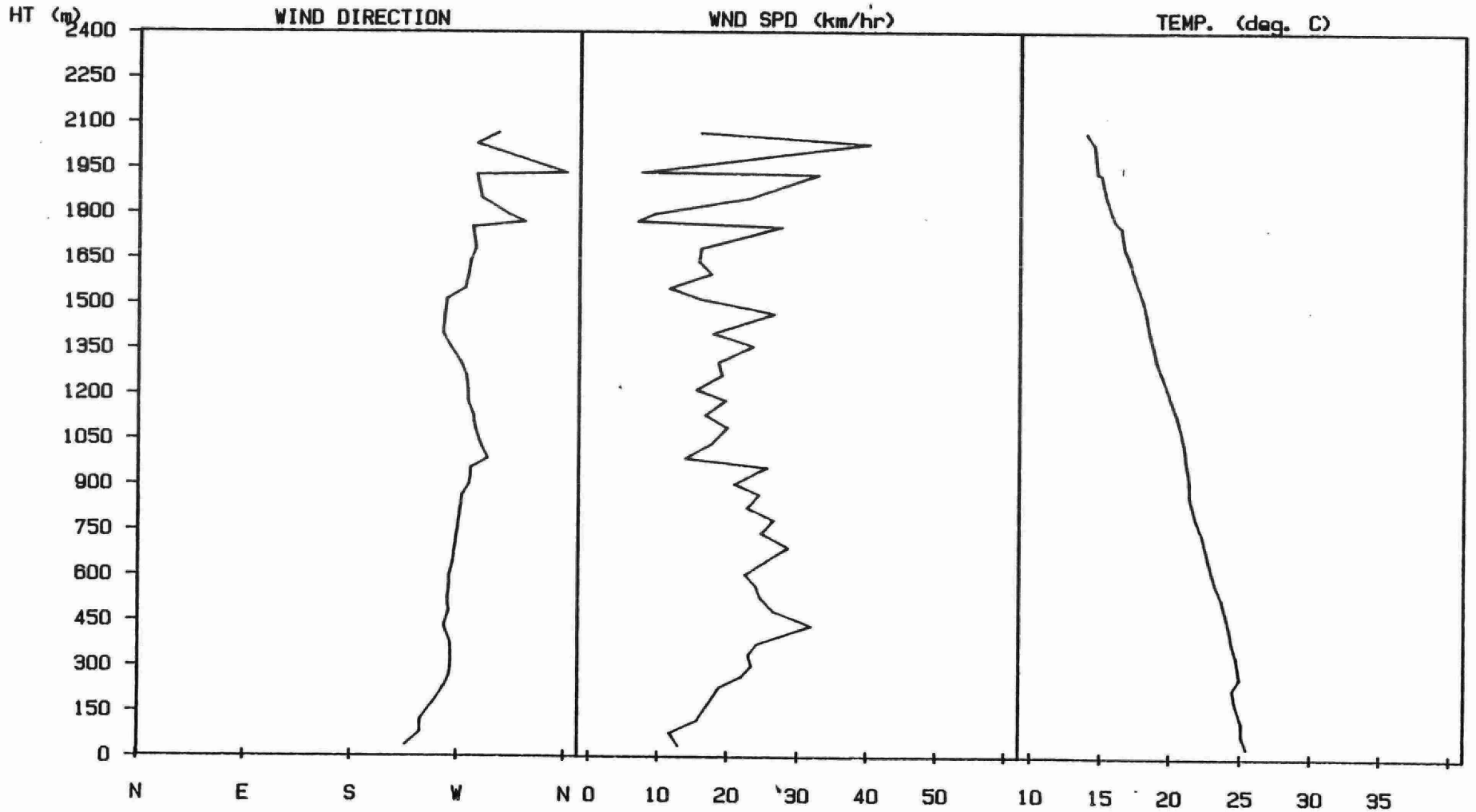


DOUBLE THEODOLITE RUN

NAME: SARNIA_84_UA: 7132A, 7132B
LOC: COAST GUARD SITE ... AZ -1.5
MET: SAME AS 7131
ELEV, HT DIFF: 195.0, 1.9 m.
A: BASE: 146.0 m.
B: BASE: 152.7 m.
REPORT TIME: 15 sec.

GND TEMP: 26.6 deg.C
BEARING : 6.0 deg.
BEARING : 185.0 deg.
A-B: 298.7m, 5.5 d

START: 84/07/13 09:58:05
SCAN : 15 sec.
SCAN : 15 sec.
ASCENT RATE: 3.0 m/sec



SINGLE THEODOLITE RUN

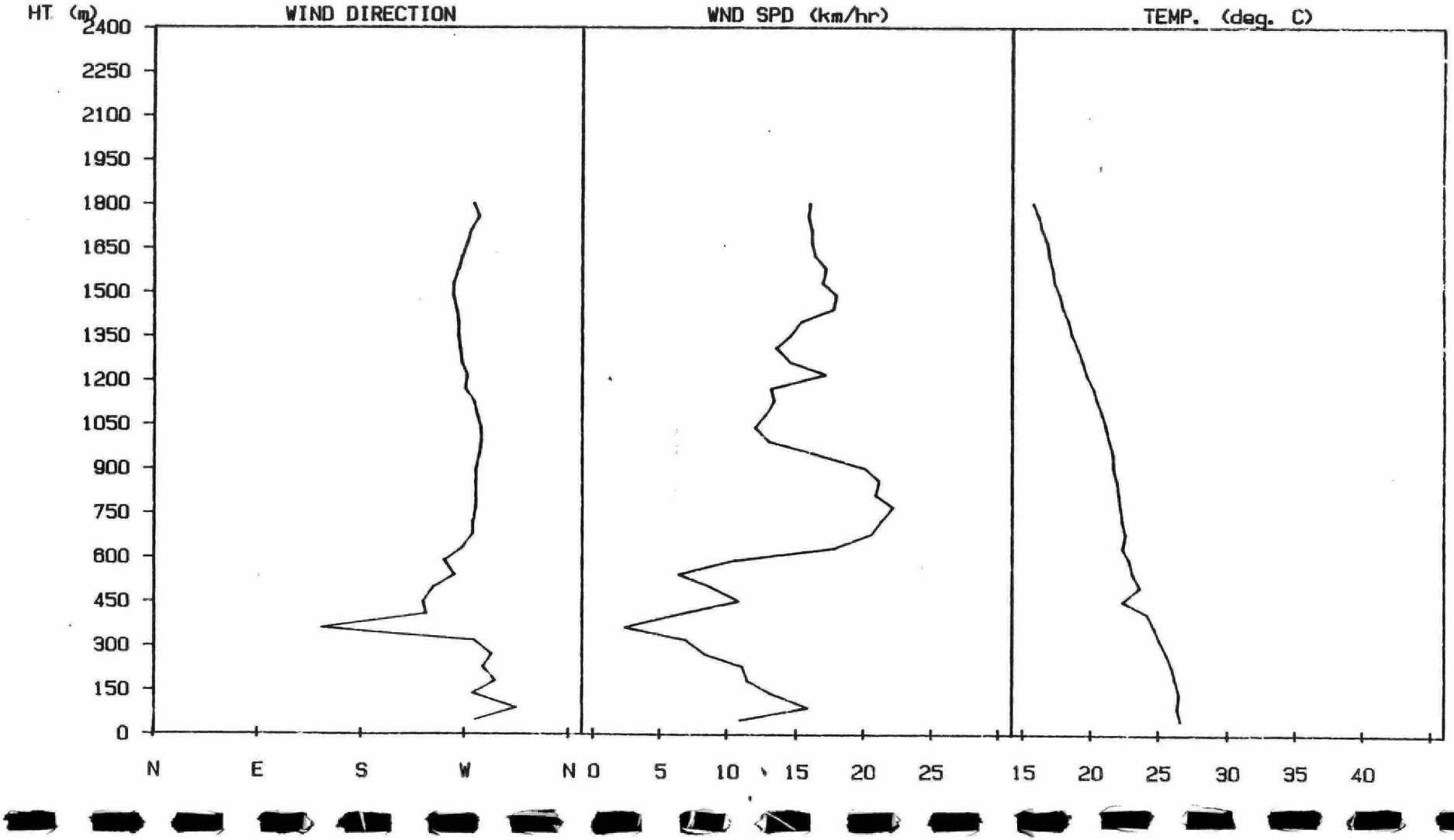
NAME: SARNIA_84_UA: 7133A
LOC: COAST GUARD SITE
MET: SAME AS 7132
ELEV: 195.0 m.
BASE: 145.8 m.

GND TEMP: 28.5 deg.C
BEARING : 6.0 deg.

START: 84/07/13 11:58:14
SCAN : 15 sec.

REPORT TIME: 15 sec.

ASCENT RATE: 3.0 m/sec



SINGLE THEODOLITE RUN

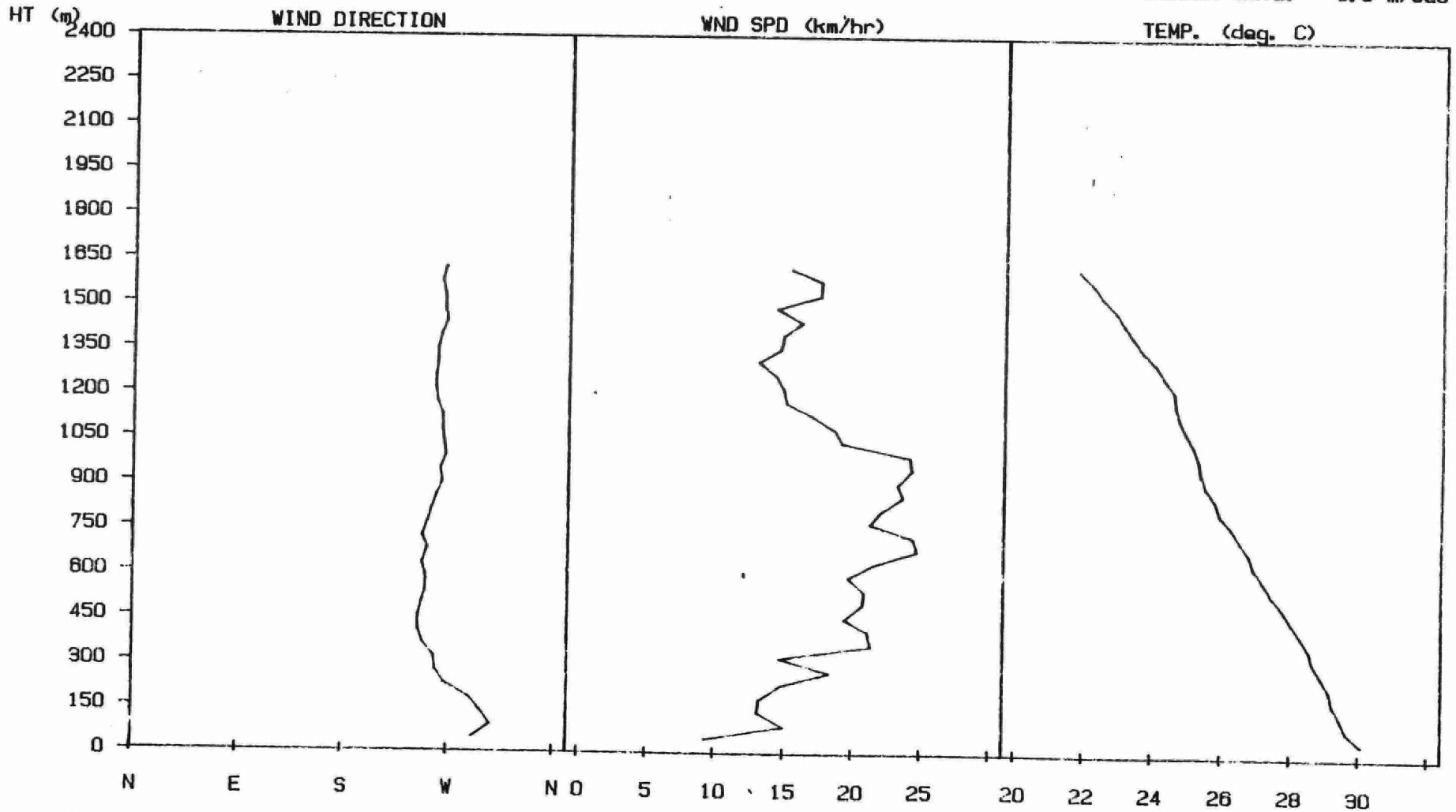
NAME: SARNIA_84_UA: 7134A
LOC: COAST GUARD SITE
MET: CLEAR & SLIGHT WESTERLIES
ELEV: 195.0 m.
BASE: 145.9 m.

GND TEMP: 31.8 deg. C
BEARING : 6.0 deg.

START: 84/07/13 11:59:45
SCAN : 15 sec.

REPORT TIME: 15 sec.

ASCENT RATE: 3.0 m/sec



SINGLE THEODOLITE RUN

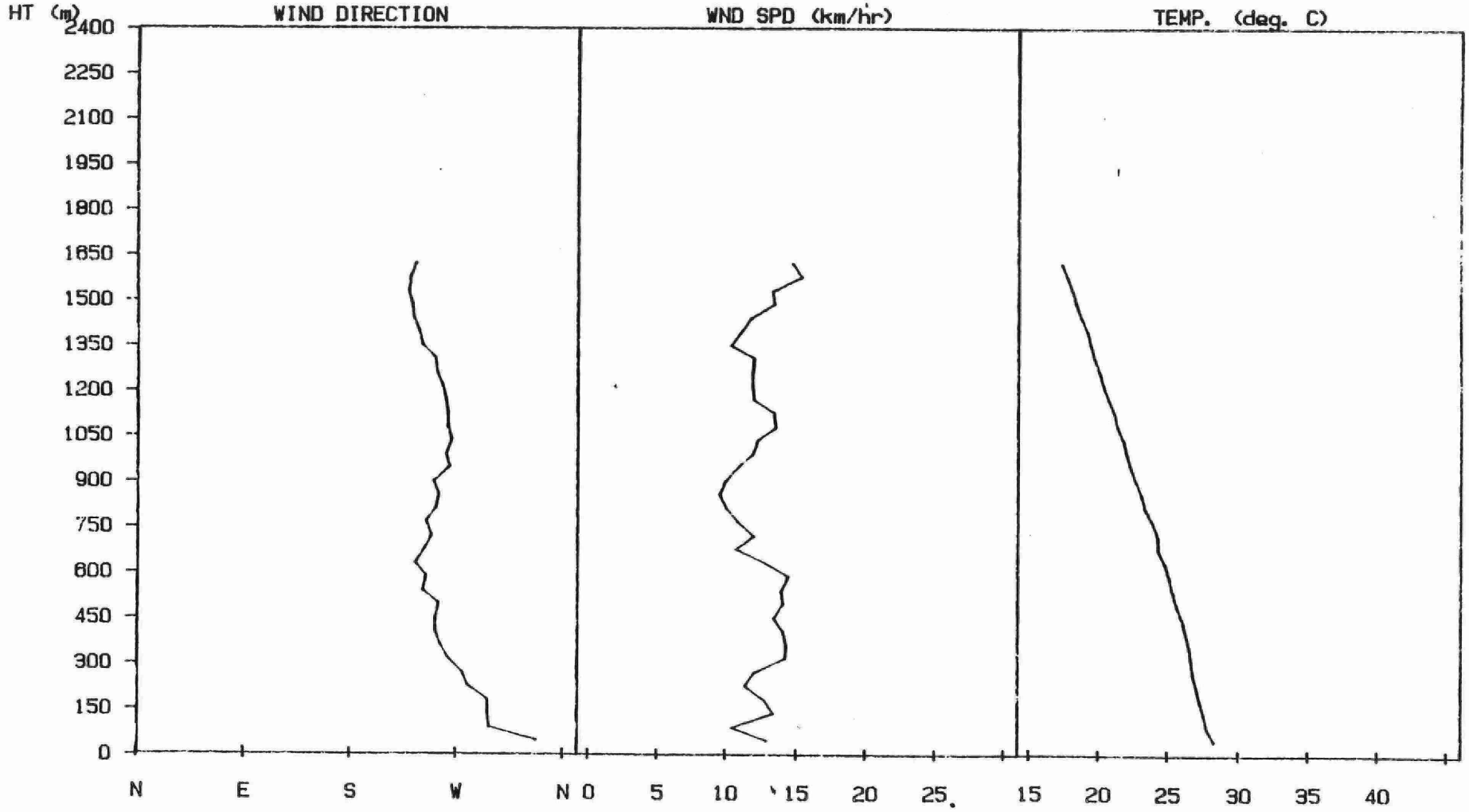
NAME: SARNIA_84_UA: 7135A
LOC: COAST GUARD SITE
MET: SCATT FR WX CUM CALM
ELEV: 195.0 m.
BASE: 145.9 m.

GND TEMP: 29.5 deg.C
BEARING : 6.0 deg.

START: 84/07/13 13:00:00
SCAN : 15 sec.

REPORT TIME: 15 sec.

ASCENT RATE: 3.0 m/sec

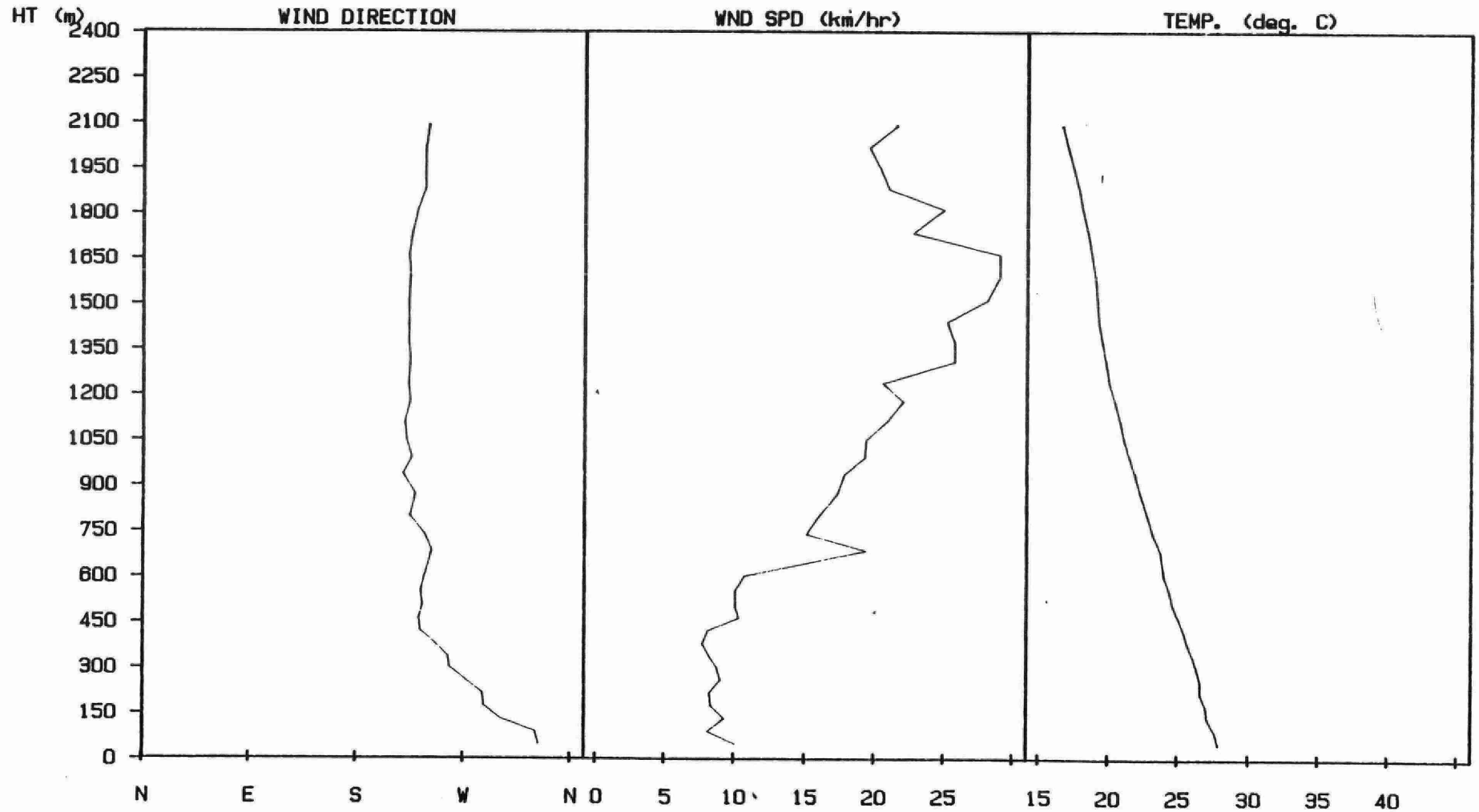


DOUBLE THEODOLITE RUN

NAME: SARNIA_84_UA: 7136A, 7136B
LOC: COAST GUARD SITE ... AZ -2.5
MET: SAME AS 7135
ELEV, HT DIFF: 195.0, .2 m.
A: BASE: 146.1 m.
B: BASE: 152.7 m.
REPORT TIME: 15 sec.

GND TEMP: 29.5 deg.C
BEARING : 6.0 deg.
BEARING : 185.0 deg.
A-B: 298.7m, 5.5 d

START: 84/07/13 13:59:24
SCAN : 15 sec.
SCAN : 15 sec.
ASCENT RATE: 3.0 m/sec



SINGLE THEODOLITE RUN

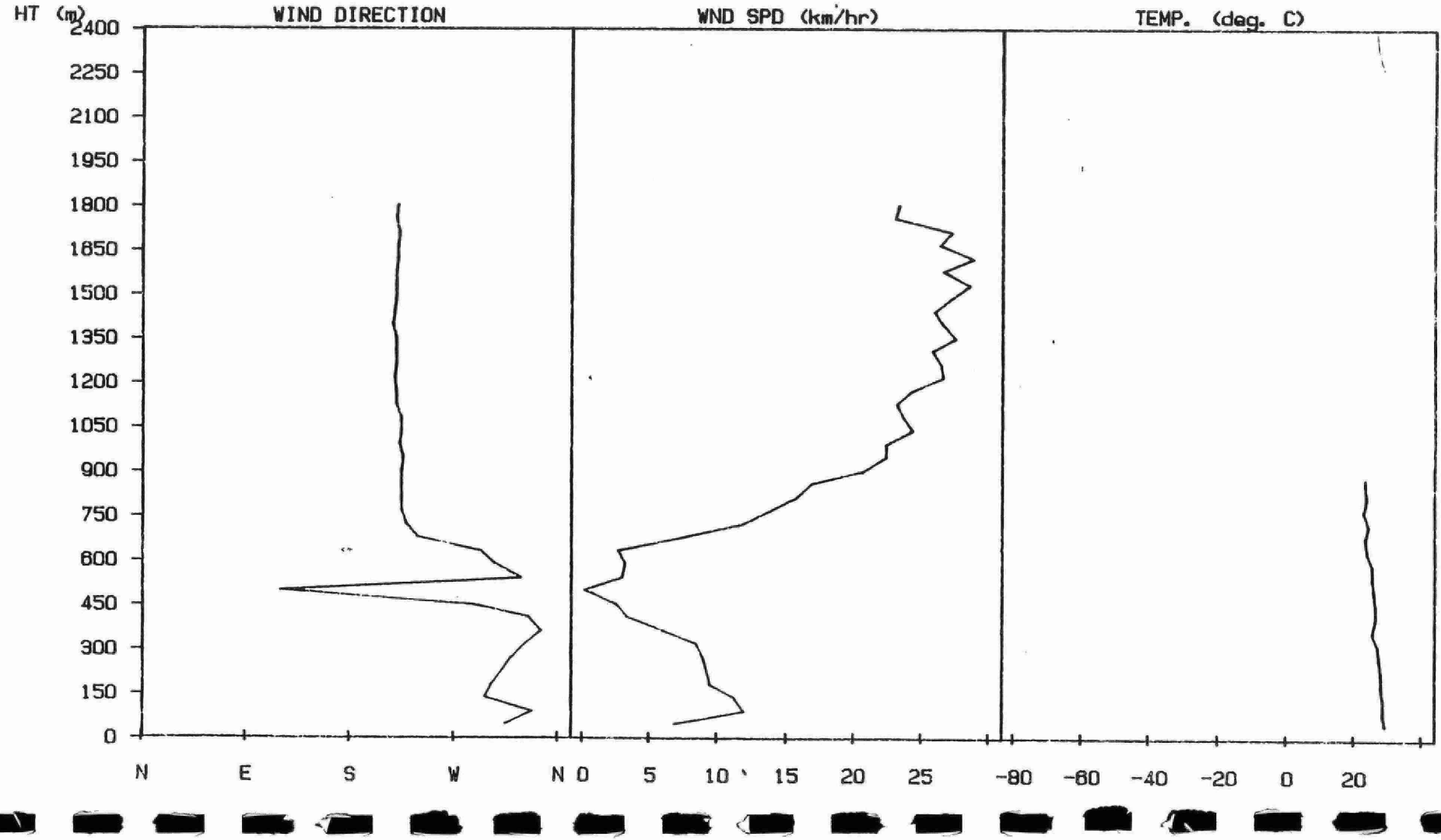
NAME: SARNIA_84_UA: 7137A
LOC: COAST GUARD SITE
MET: SAME AS 7136
ELEV: 195.0 m.
BASE: 146.0 m.

GND TEMP: 30.5 deg.C
BEARING : 6.0 deg.

START: 84/07/13 15:00:05
SCAN : 15 sec.

REPORT TIME: 15 sec.

ASCENT RATE: 3.0 m/sec

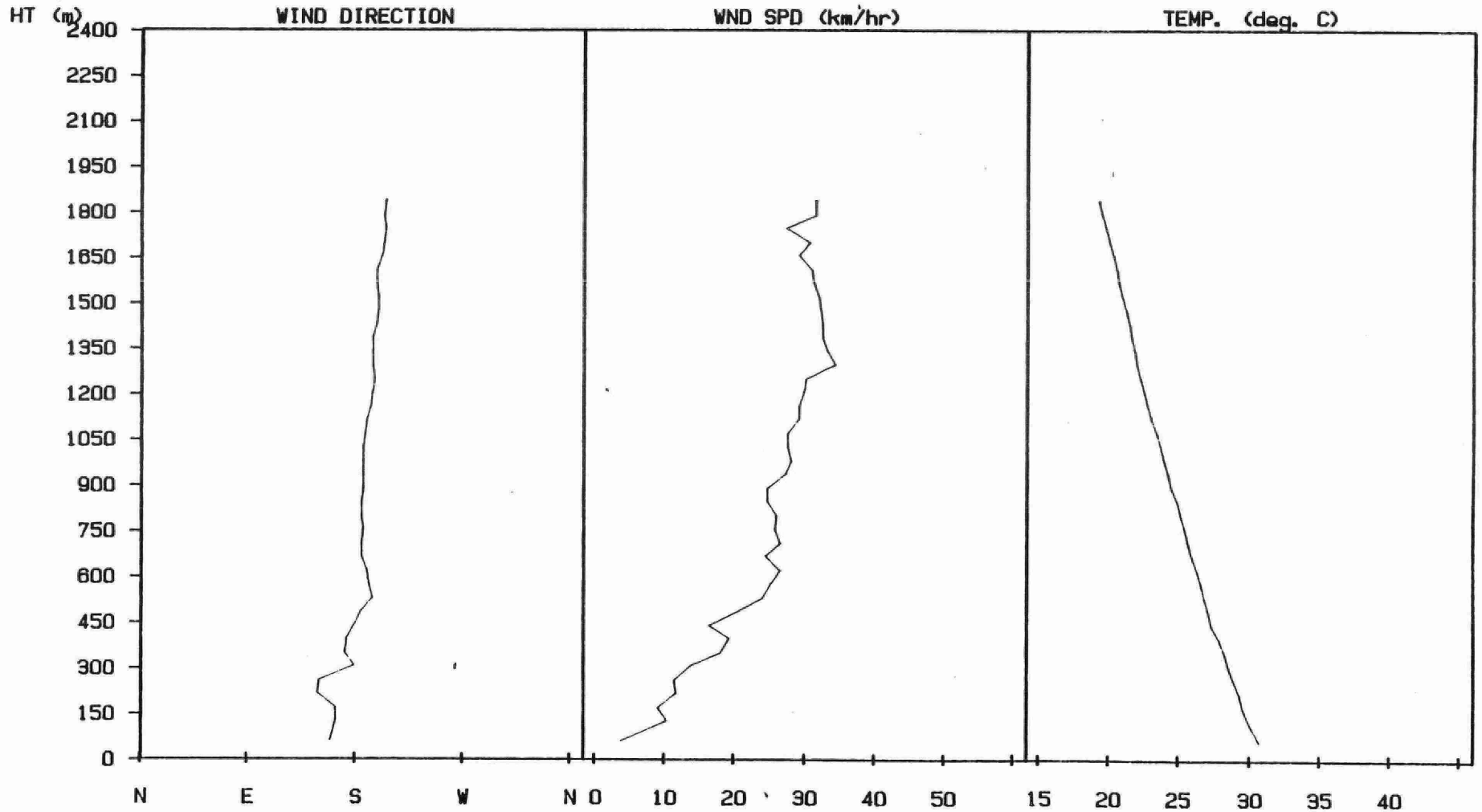


DOUBLE THEODOLITE RUN

NAME: SARNIA_84_UA: 7138A, 7138B
LOC: COAST GUARD SITE
MET: SCATTERED CUMULUS
ELEV. HT DIFF: 195.0, 1.1 m.
A: BASE: 146.0 m.
B: BASE: 152.7 m.
REPORT TIME: 15 sec.

GND TEMP: 32.2 deg.C
BEARING : 6.0 deg.
BEARING : 185.0 deg.
A-B: 298.7m. 5.5 d

START: 84/07/13 16:00:10
SCAN : 15 sec.
SCAN : 15 sec.
ASCENT RATE: 3.0 m/sec

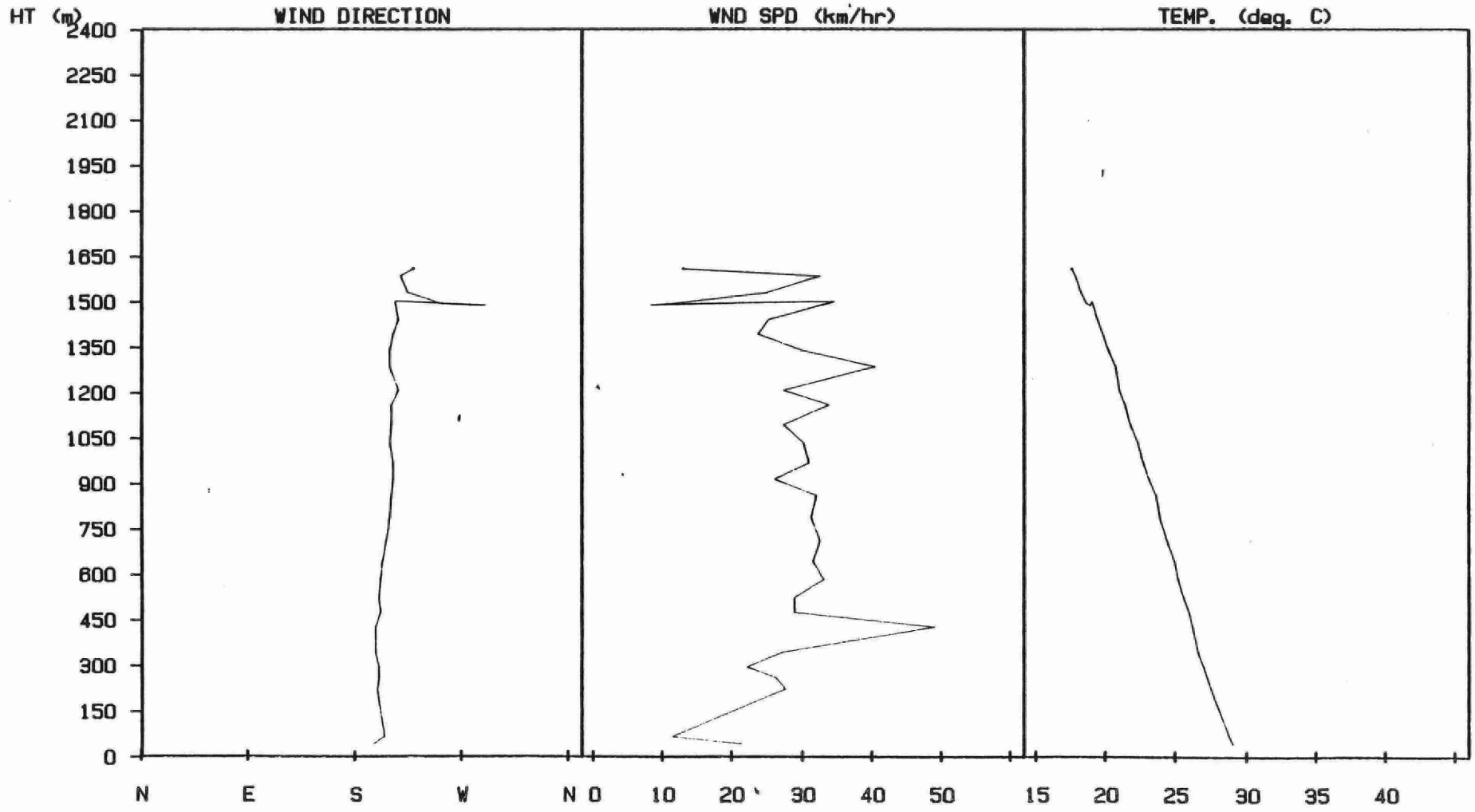


DOUBLE THEODOLITE RUN

NAME: SARNIA_84_UA: 7139A, 7139B
LOC: COAST GUARD SITE ....AZ -2
MET: SCAT FR WX CUM S WINDS
ELEV, HT DIFF: 195.0, 4.5 m.
A: BASE: 146.0 m.
B: BASE: 152.7 m.
REPORT TIME: 15 sec.

GND TEMP: 29.6 deg.C
BEARING : 6.0 deg.
BEARING : 185.0 deg.
A-B: 298.6m, 5.5 d

START: 84/07/13 16:57:57
SCAN : 15 sec.
SCAN : 15 sec.
ASCENT RATE: 3.0 m/sec



SINGLE THEODOLITE RUN

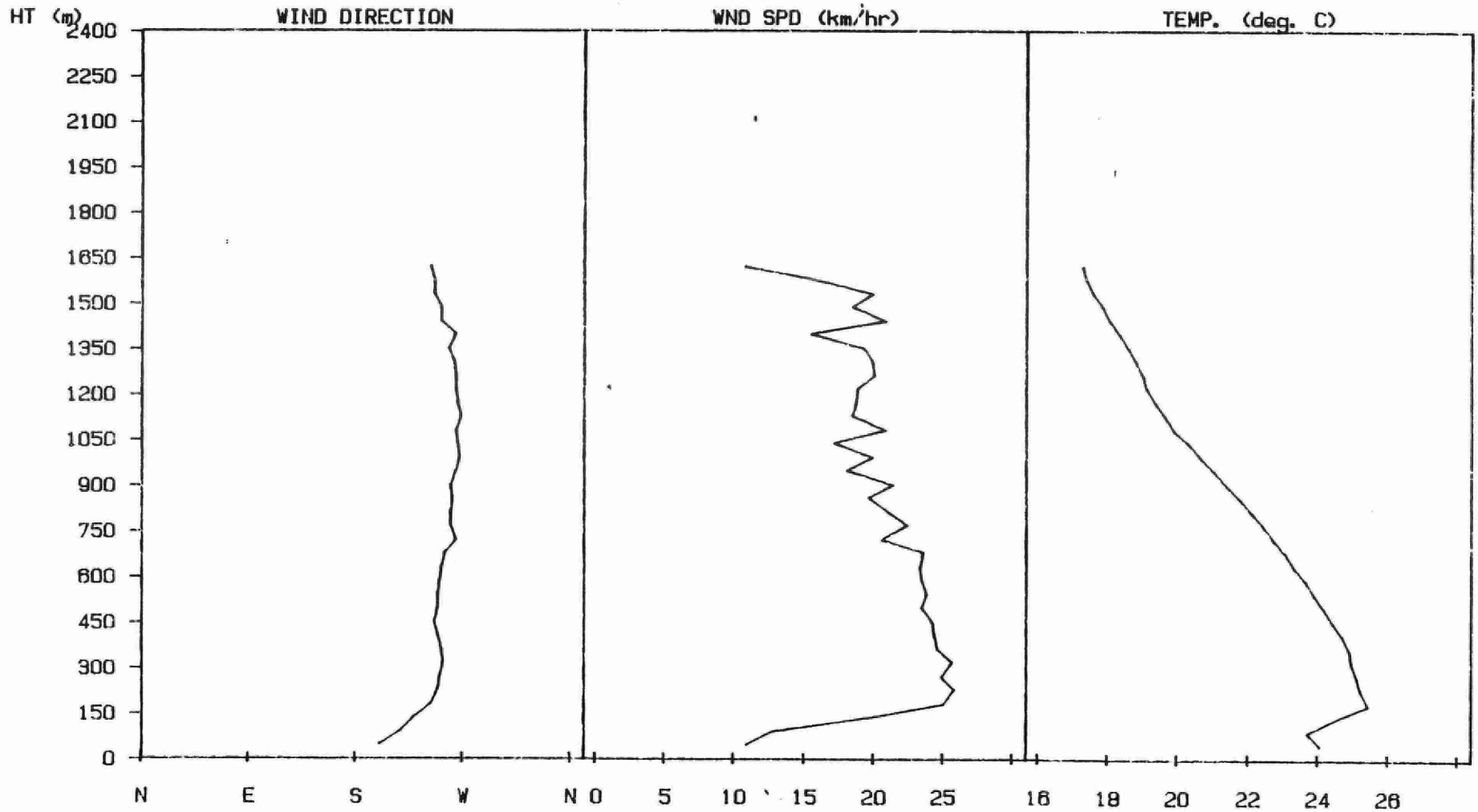
NAME: SARNIA_84_UA: 7141A
LOC: COAST GUARD SITE
MET: CLEAR & HAZY -X SW WINDS
ELEV: 195.0 m.
BASE: 145.0 m.

GND TEMP: 24.8 deg.C
BEARING : 296.0 deg.

START: 84/07/14 09:00:01
SCAN : 15 sec.

REPORT TIME: 15 sec.

ASCENT RATE: 3.0 m/sec



SINGLE THEODOLITE RUN

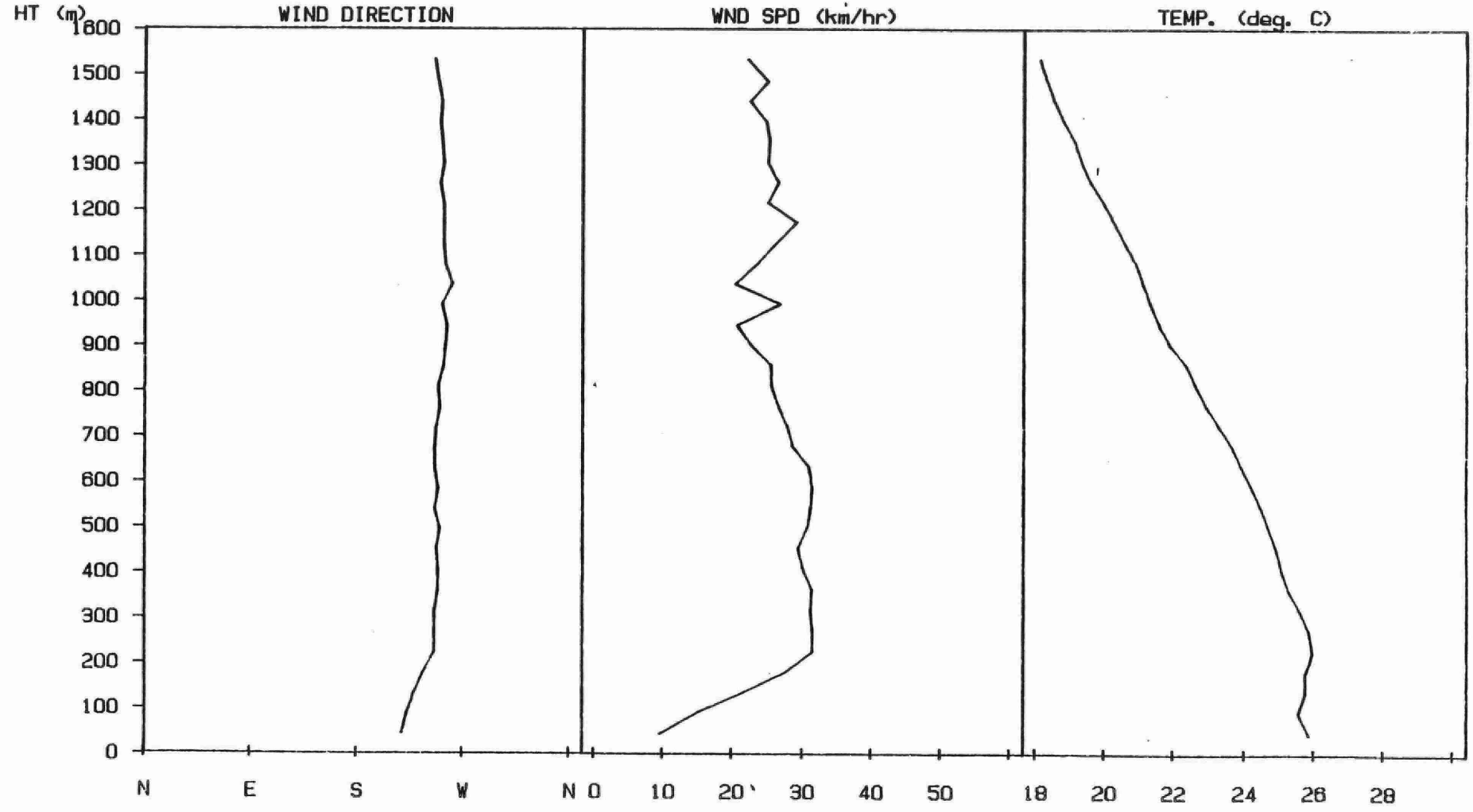
NAME: SARNIA_84_UA: 7142A
LOC: COAST GUARD SITE
MET: SLIGHT NOCTURNAL INVER. HAZY
ELEV: 195.0 m.
BASE: 144.7 m.

GND TEMP: 26.8 deg.C
BEARING : 295.0 deg.

START: 84/07/14 10:00:00
SCAN : 15 sec.

REPORT TIME: 15 sec.

ASCENT RATE: 3.0 m/sec



SINGLE THEODOLITE RUN

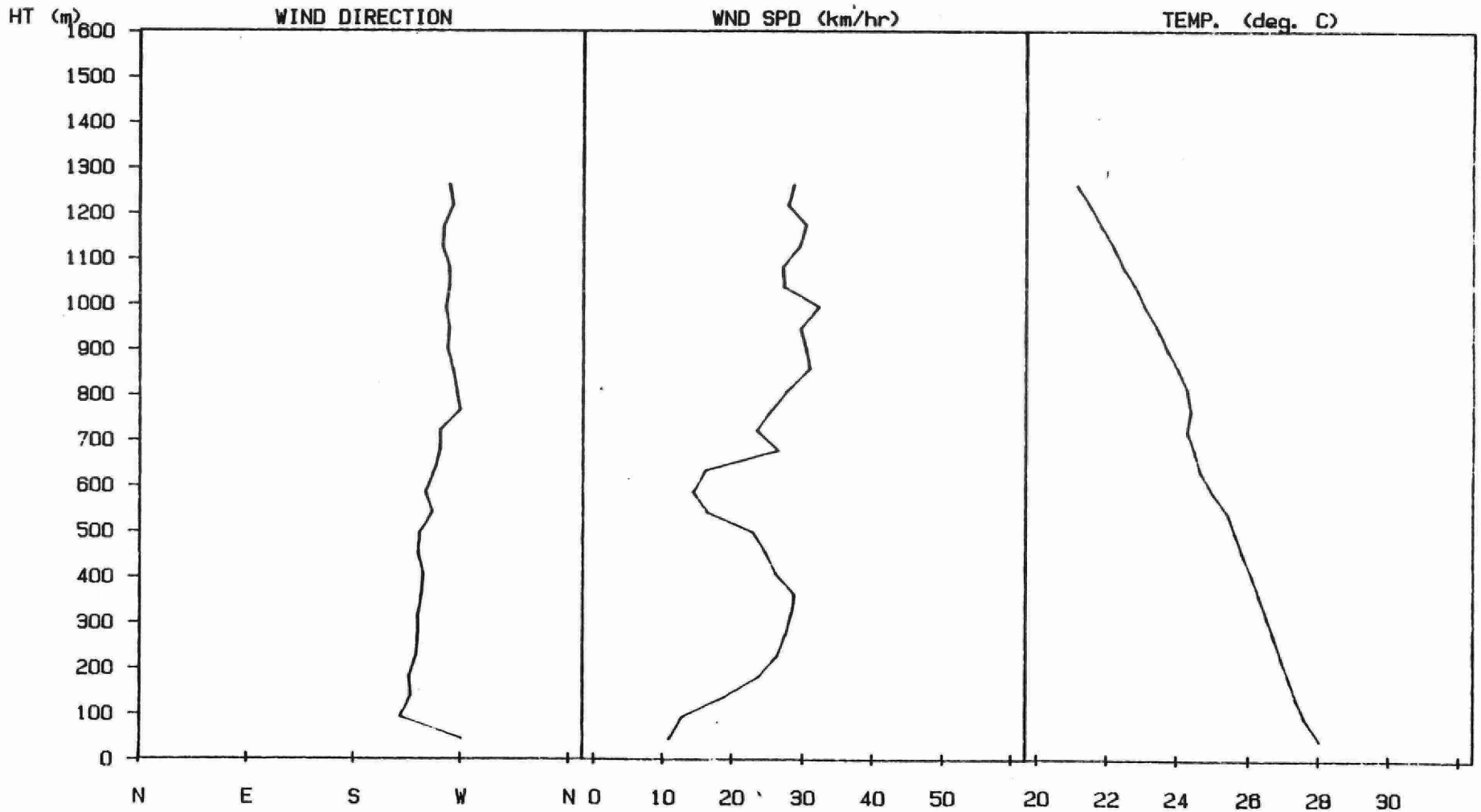
NAME: SARNIA_84_UA: 7149A
LOC: COAST GUARD SITE
MET: SAME AS 7142
ELEV: 195.0 m.
BASE: 145.0 m.

GND TEMP: 29.1 deg.C
BEARING : 307.0 deg.

START: 84/07/14 11:03:54
SCAN : 15 sec.

REPORT TIME: 15 sec.

ASCENT RATE: 3.0 m/sec



SINGLE THEODOLITE RUN

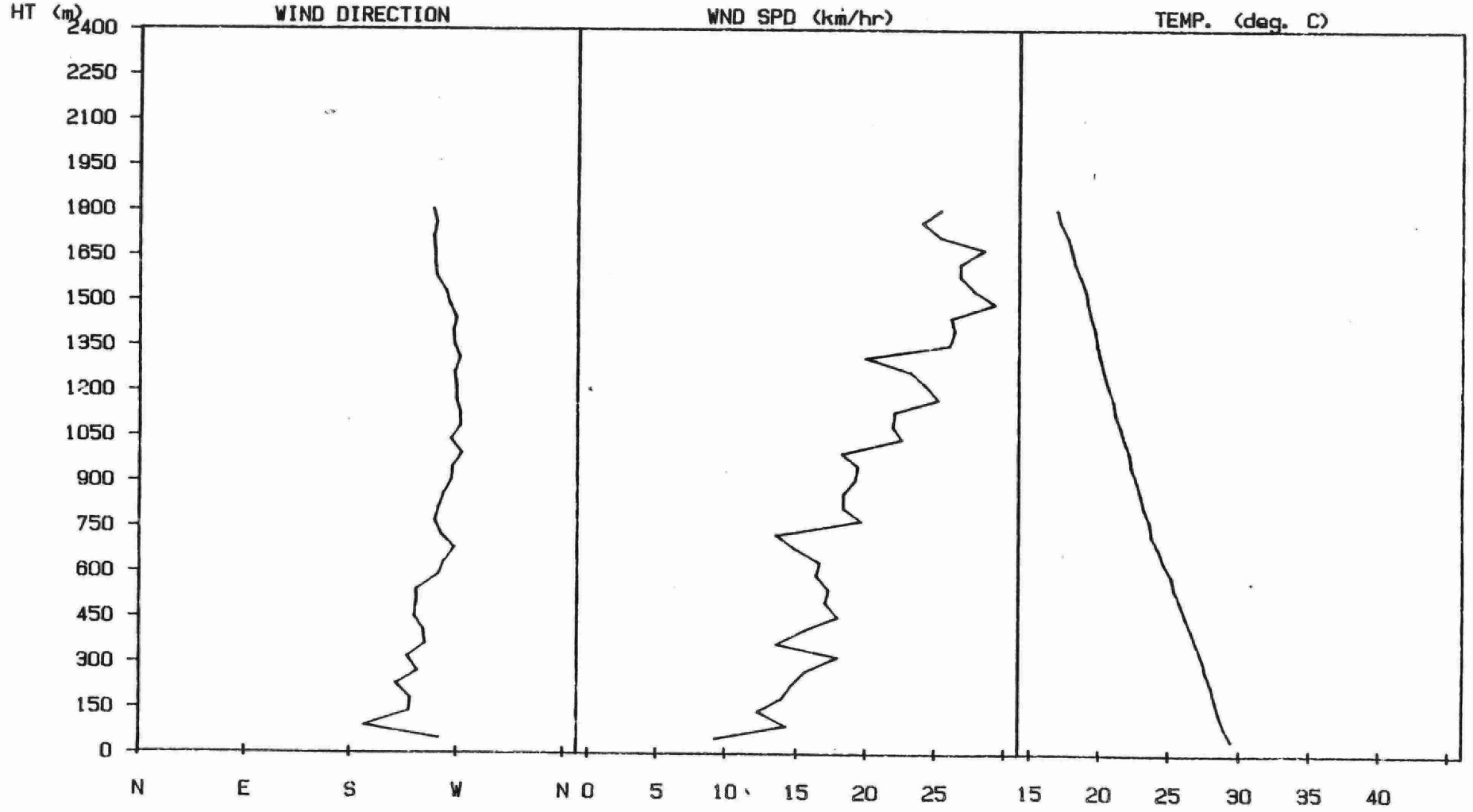
NAME: SARNIA_84_UA: 7144A
LOC: COAST GUARD SITE
MET: SAME AS 7142
ELEV: 195.0 m.
BASE: 144.9 m.

GND TEMP: 30.8 deg.C
BEARING : 307.0 deg.

START: 84/07/14 11:59:59
SCAN : 15 sec.

REPORT TIME: 15 sec.

ASCENT RATE: 3.0 m/sec



SINGLE THEODOLITE RUN

NAME: SARNIA_84_UA: 7145A
LOC: COAST GUARD SITE
MET: SCATTERED CUMULUS & HAZE

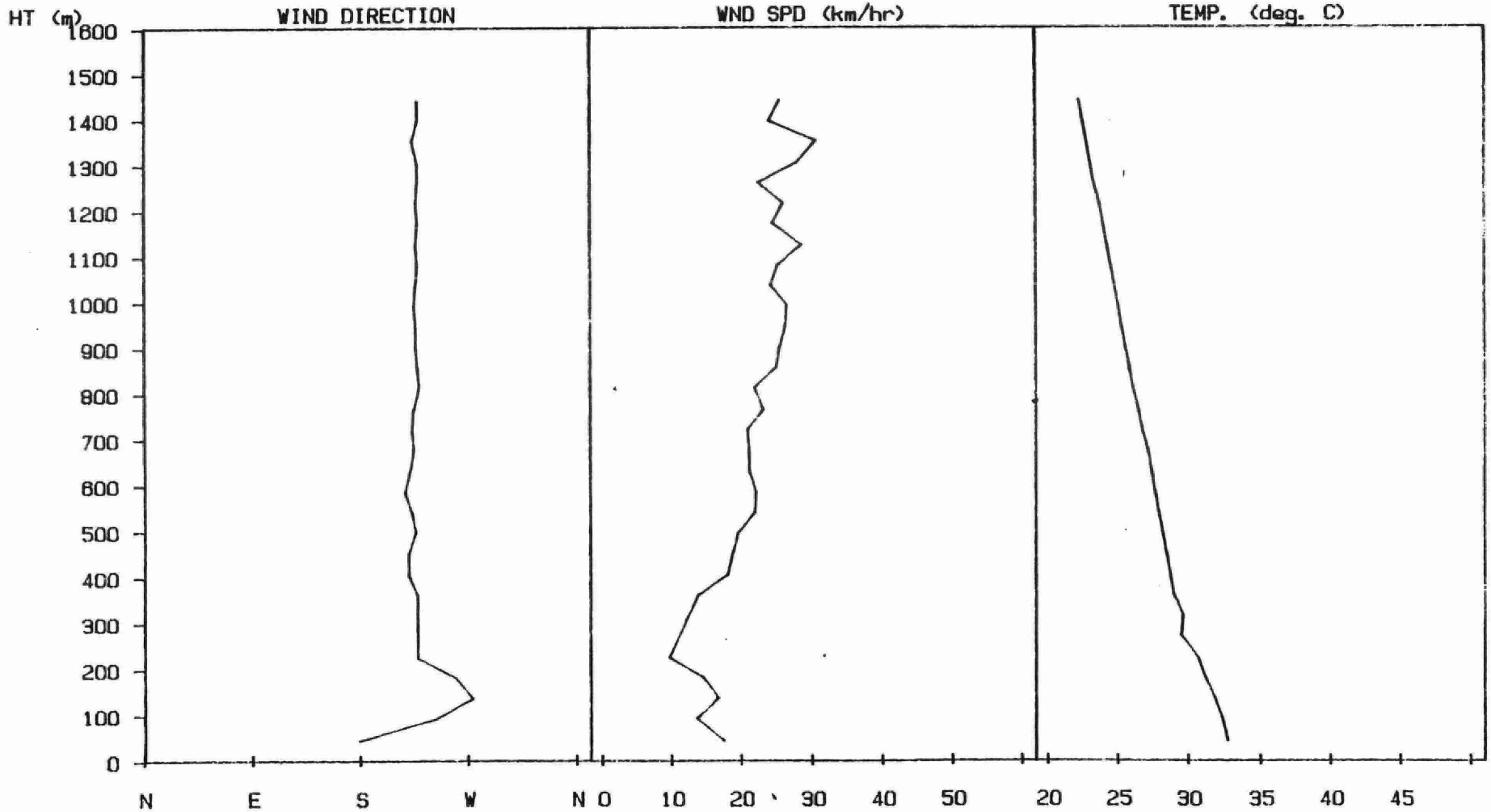
ELEV: 195.0 m.
BASE: 144.4 m.

GND TEMP: 33.8 deg.C
BEARING : 296.0 deg.

START: 84/07/14 14:01:00
SCAN : 15 sec.

REPORT TIME: 15 sec.

ASCENT RATE: 9.0 m/sec

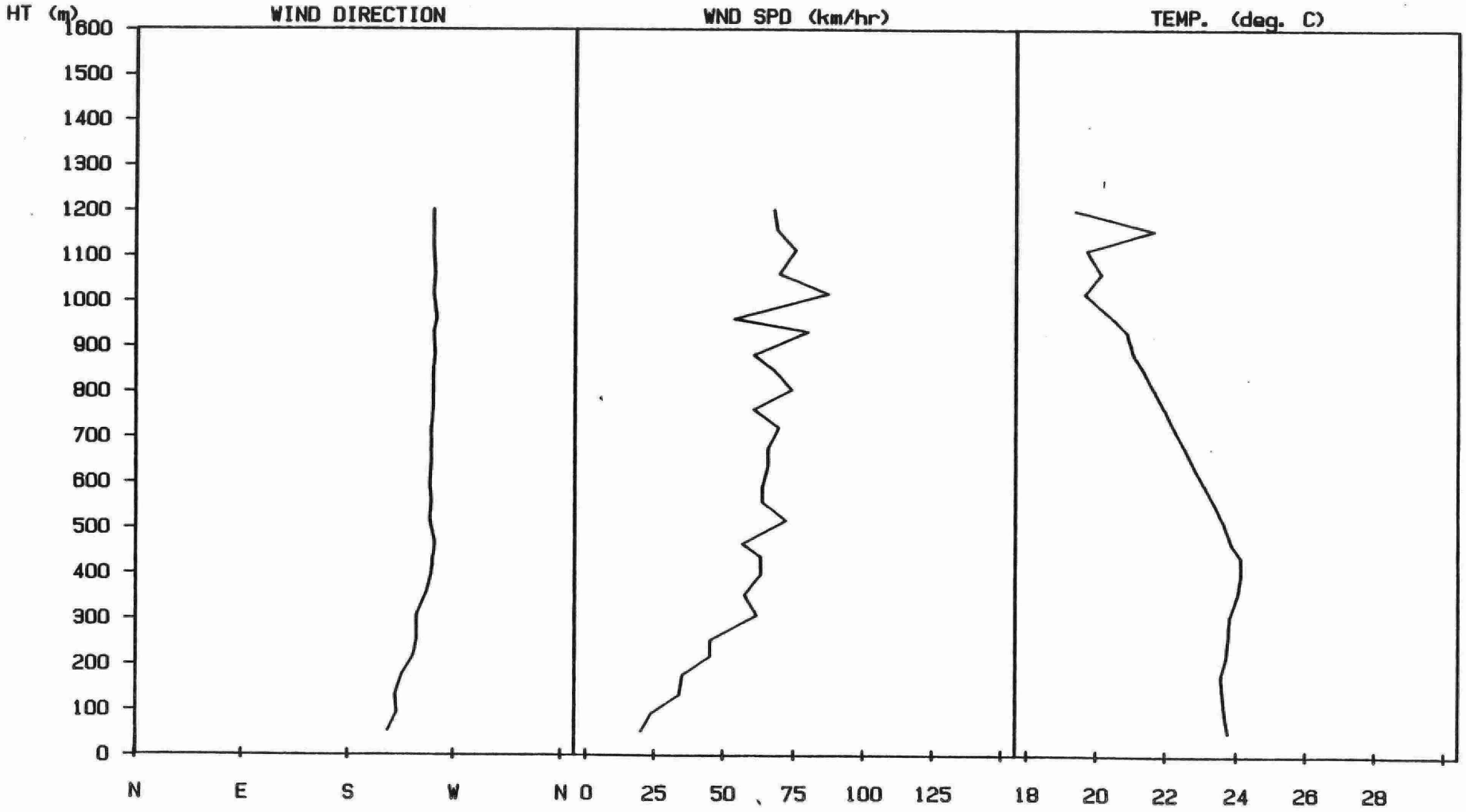


DOUBLE THEODOLITE RUN

NAME: SARNIA_84_UA: 7151A, 7151B
LOC: COAST GUARD SITE ....AZ -1
MET: OVERCAST ALTOSTRATUS
ELEV. HT DIFF: 195.0, 5.8 m.
A: BASE: 145.9 m.
B: BASE: 152.7 m.
REPORT TIME: 15 sec.

GND TEMP: 23.8 deg.C
BEARING : 6.0 deg.
BEARING : 185.0 deg.
A-B: 298.5m, 5.5 d

START: 84/07/15 09:00:03
SCAN : 15 sec.
SCAN : 15 sec.
ASCENT RATE: 3.0 m/sec

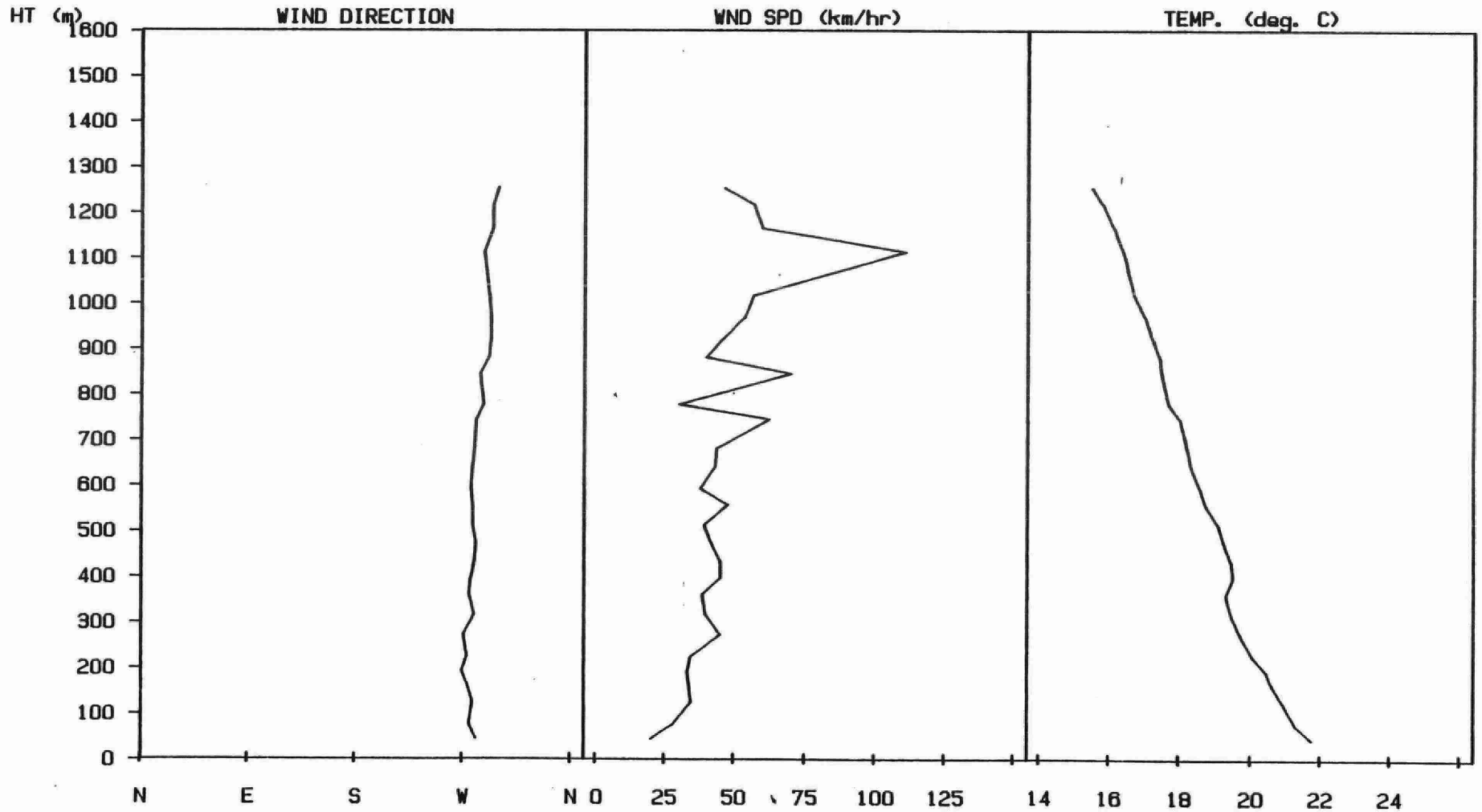


DOUBLE THEODOLITE RUN

NAME: SARNIA_84_UA: 7161A, 7161B
LOC: COAST GUARD SITE .... AZ..-1
MET: CLEAR & WESTERLY WINDS
ELEV, HT DIFF: 195.0, 2.0 m.
A: BASE: 146.0 m.
B: BASE: 152.7 m.
REPORT TIME: 15 sec.

GND TEMP: 23.1 deg.C
BEARING : 6.0 deg.
BEARING : 185.0 deg.
A-B: 298.7m, 5.5 d

START: 84/07/16 09:32:12
SCAN : 15 sec.
SCAN : 15 sec.
ASCENT RATE: 3.0 m/sec

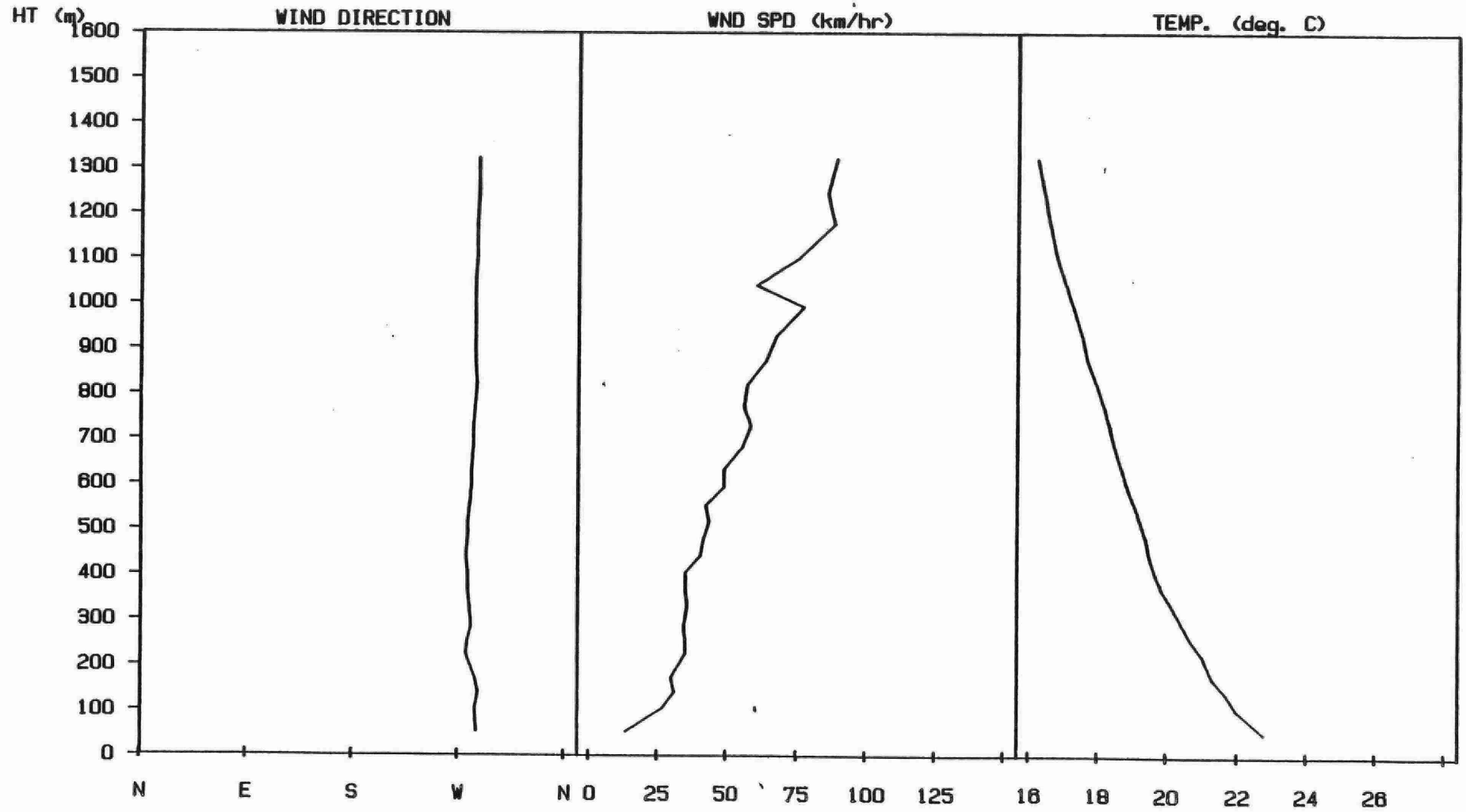


DOUBLE THEODOLITE RUN

NAME: SARNIA_84_UA: 7162A, 7162B
LOC: COAST GUARD SITE
MET: SAME AS 7161
ELEV, HT DIFF: 195.0, 3.6 m.
A: BASE: 146.0 m.
B: BASE: 152.7 m.
REPORT TIME: 15 sec.

GND TEMP: 23.8 deg.C
BEARING : 6.0 deg.
BEARING : 185.0 deg.
A-B: 298.7m, 5.5 d

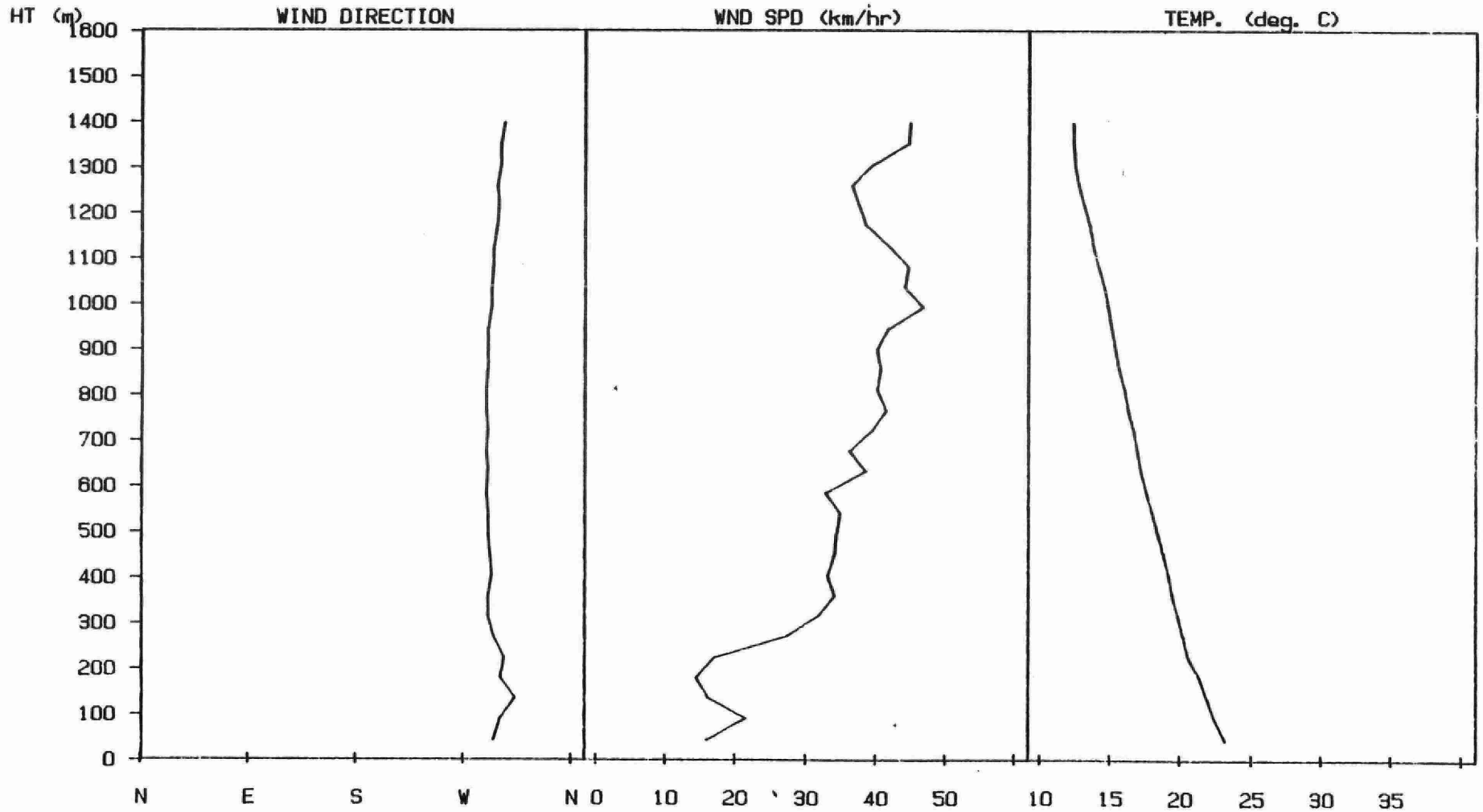
START: 84/07/16 10:14:57
SCAN : 15 sec.
SCAN : 15 sec.
ASCENT RATE: 3.0 m/sec



SINGLE THEODOLITE RUN

NAME: SARNIA_84_JA: 7163A
LOC: COAST GUARD SITE
MET: FAIRWEATHER SCATTERED CUMULUS WESTERLY WINDS
ELEV: 195.0 m. GND TEMP: 25.1 deg.C START: 84/07/16 11:59:49
BASE: 146.0 m. BEARING : 8.0 deg. SCAN : 15 sec.

REPORT TIME: 15 sec. ASCENT RATE: 3.0 m/sec

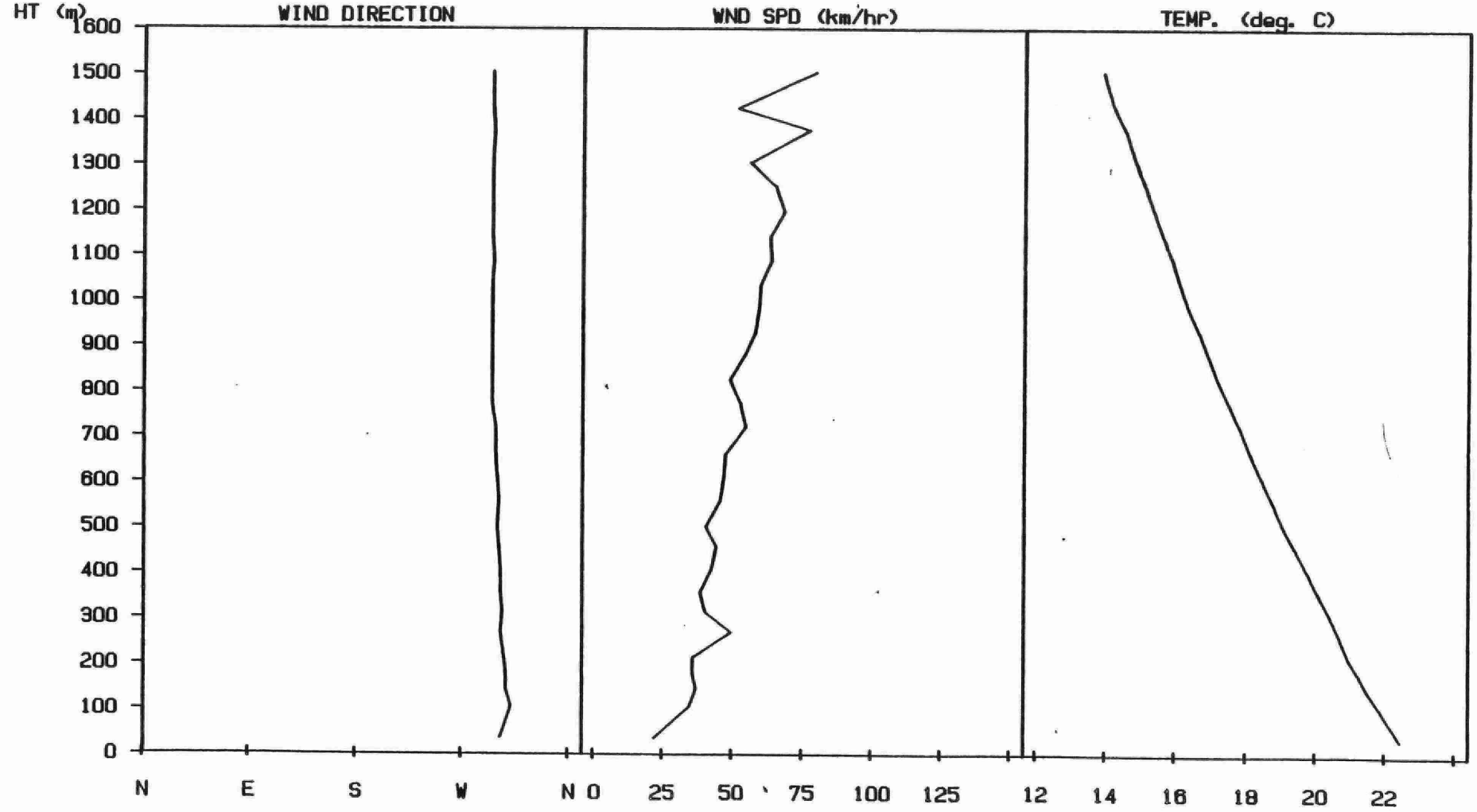


DOUBLE THEODOLITE RUN

NAME: SARNIA_84_JA: 7164A, 7164B
LOC: COAST GUARD SITE
MET: BROKEN CUMULUS WESTERLIES
ELEV, HT DIFF: 195.0, 5.7 m.
A: BASE: 145.9 m.
B: BASE: 152.7 m.
REPORT TIME: 15 sec.

GND TEMP: 24.2 deg.C
BEARING : 6.0 deg.
BEARING : 185.0 deg.
A-B: 298.8m, 5.5 d

START: 84/07/16 13:59:00
SCAN : 15 sec.
SCAN : 15 sec.
ASCENT RATE: 3.0 m/sec

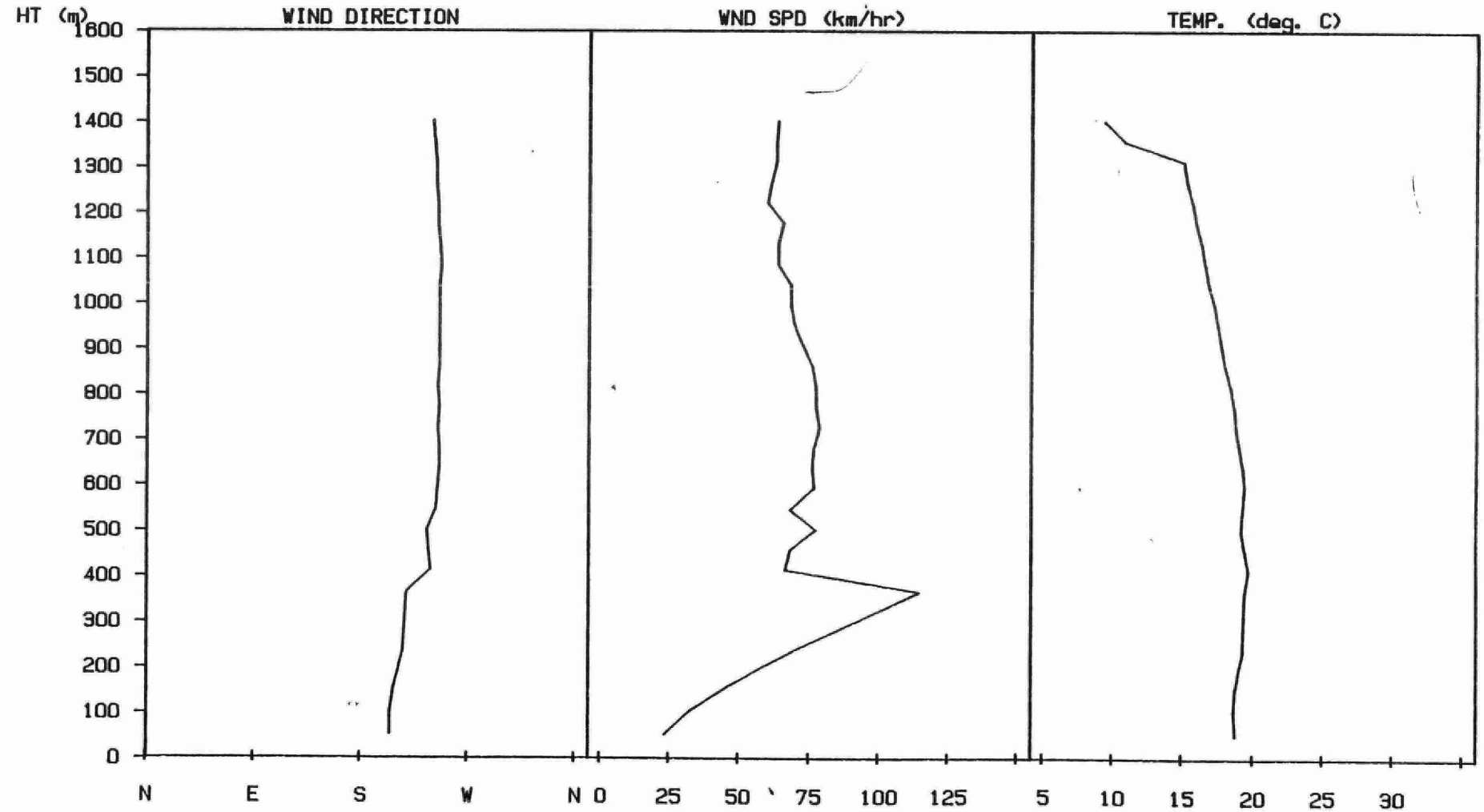


DOUBLE THEODOLITE RUN

NAME: SARNIA_84_UA: 7171A, 7171B
LOC: COAST GUARD SITE...AZ -.5
MET: OVERCAST ALTOSTRATUS
ELEV, HT DIFF: 195.0, 3.7 m.
A: BASE: 147.0 m.
B: BASE: 124.8 m.
REPORT TIME: 15 sec.

GND TEMP: 18.8 deg.C
BEARING : 304.0 deg.
BEARING : 116.0 deg.
A-B: 271.1m, 300.3 d

START: 84/07/17 09:02:22
SCAN : 15 sec.
SCAN : 15 sec.
ASCENT RATE: 3.0 m/sec



SINGLE THEODOLITE RUN

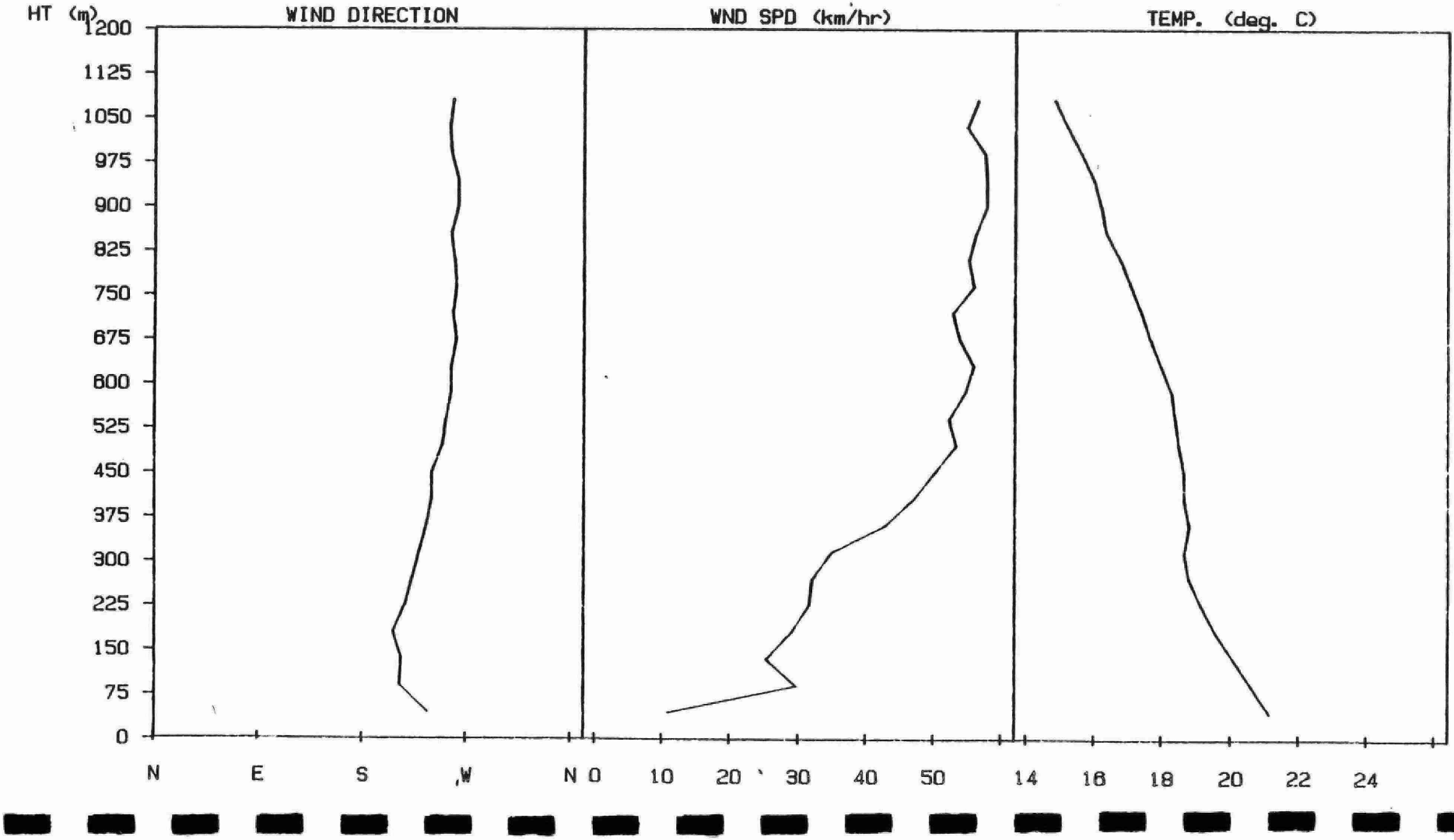
NAME: SARNIA_84_UA: 7172A
LOC: COAST GUARD SITE
MET: ALTOCUM BROKEN SW WINDS
ELEV: 195.0 m.
BASE: 146.0 m.

GND TEMP: 22.0 deg.C
BEARING : 8.0 deg.

START: 84/07/17 10:43:14
SCAN : 15 sec.

REPORT TIME: 15 sec.

ASCENT RATE: 3.0 m/sec

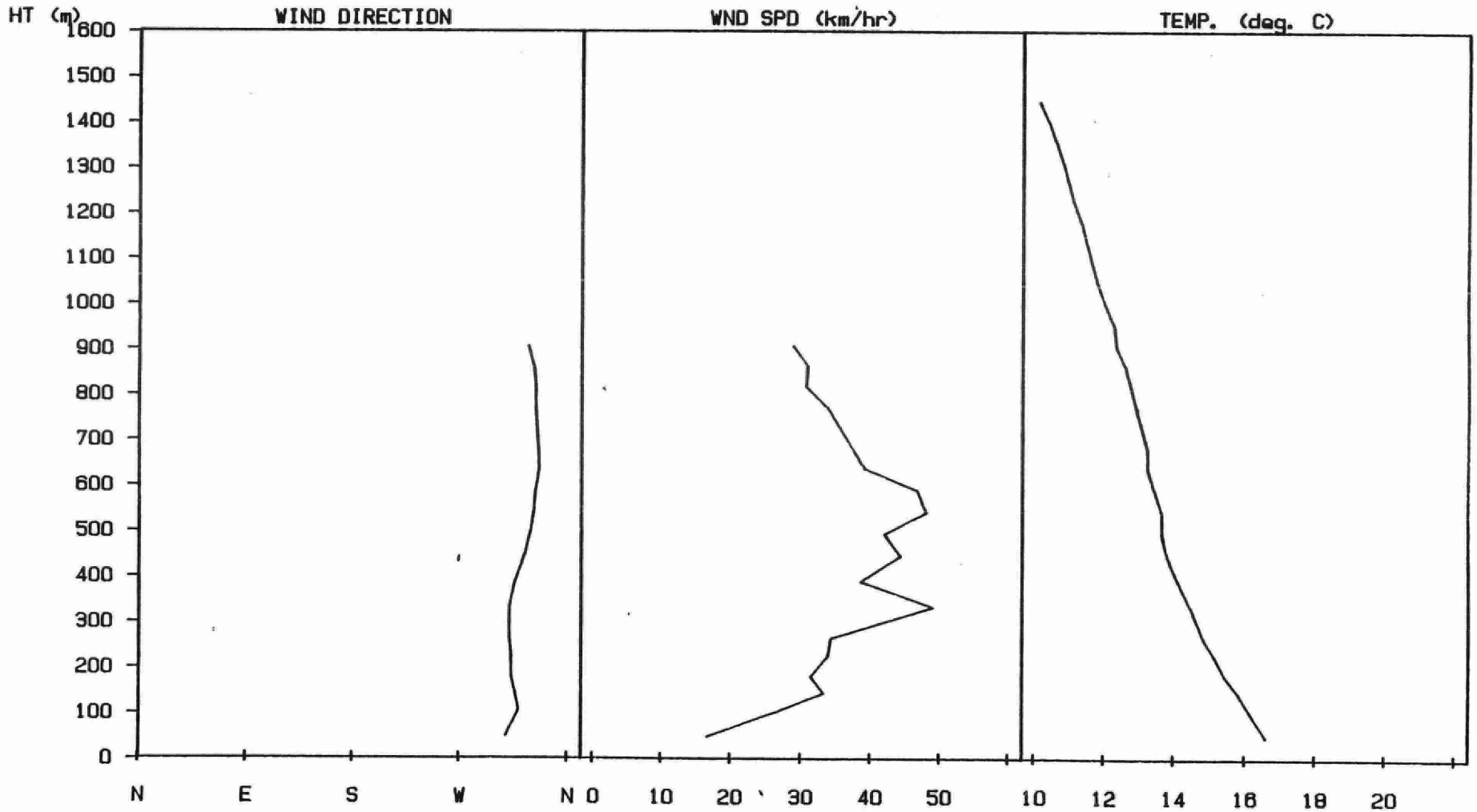


DOUBLE THEODOLITE RUN

NAME: SARNIA_84_UA: 7181A, 7181B
LOC: COAST GUARD SITE
MET: ALTOCUM W WINDS
ELEV, HT DIFF: 195.0, .6 m.
A: BASE: 146.1 m.
B: BASE: 152.7 m.
REPORT TIME: 15 sec.

GND TEMP: 17.0 deg.C
BEARING : 6.0 deg.
BEARING : 185.0 deg.
A-B: 298.8m, 5.5 d

START: 84/07/18 10:02:23
SCAN : 15 sec.
SCAN : 15 sec.
ASCENT RATE: 3.0 m/sec

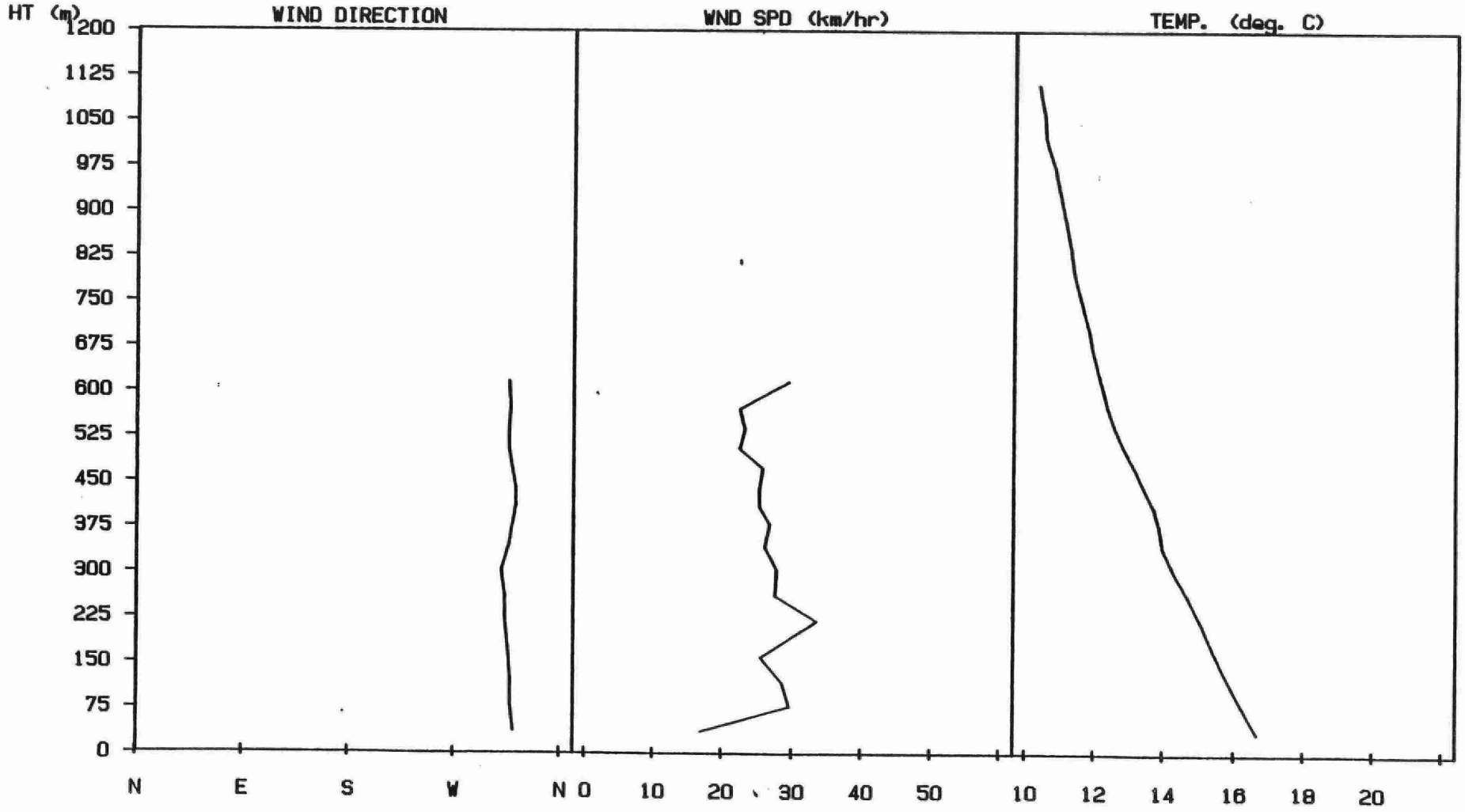


DOUBLE THEODOLITE RUN

NAME: SARNIA_84_JA: 7182A, 7182B
LOC: COAST GUARD SITE
MET: ALTOCU LIGHT RAIN & WESTERLY
ELEV. HT DIFF: 195.0, 7.1 m.
A: BASE: 145.8 m.
B: BASE: 152.7 m.
REPORT TIME: 15 sec.

GND TEMP: 17.2 deg.C
BEARING : 6.0 deg.
BEARING : 185.0 deg.
A-B: 298.4m, 5.5 d

START: 84/07/18 10:00:02
SCAN : 15 sec.
SCAN : 15 sec.
ASCENT RATE: 3.0 m/sec



SINGLE THEODOLITE RUN

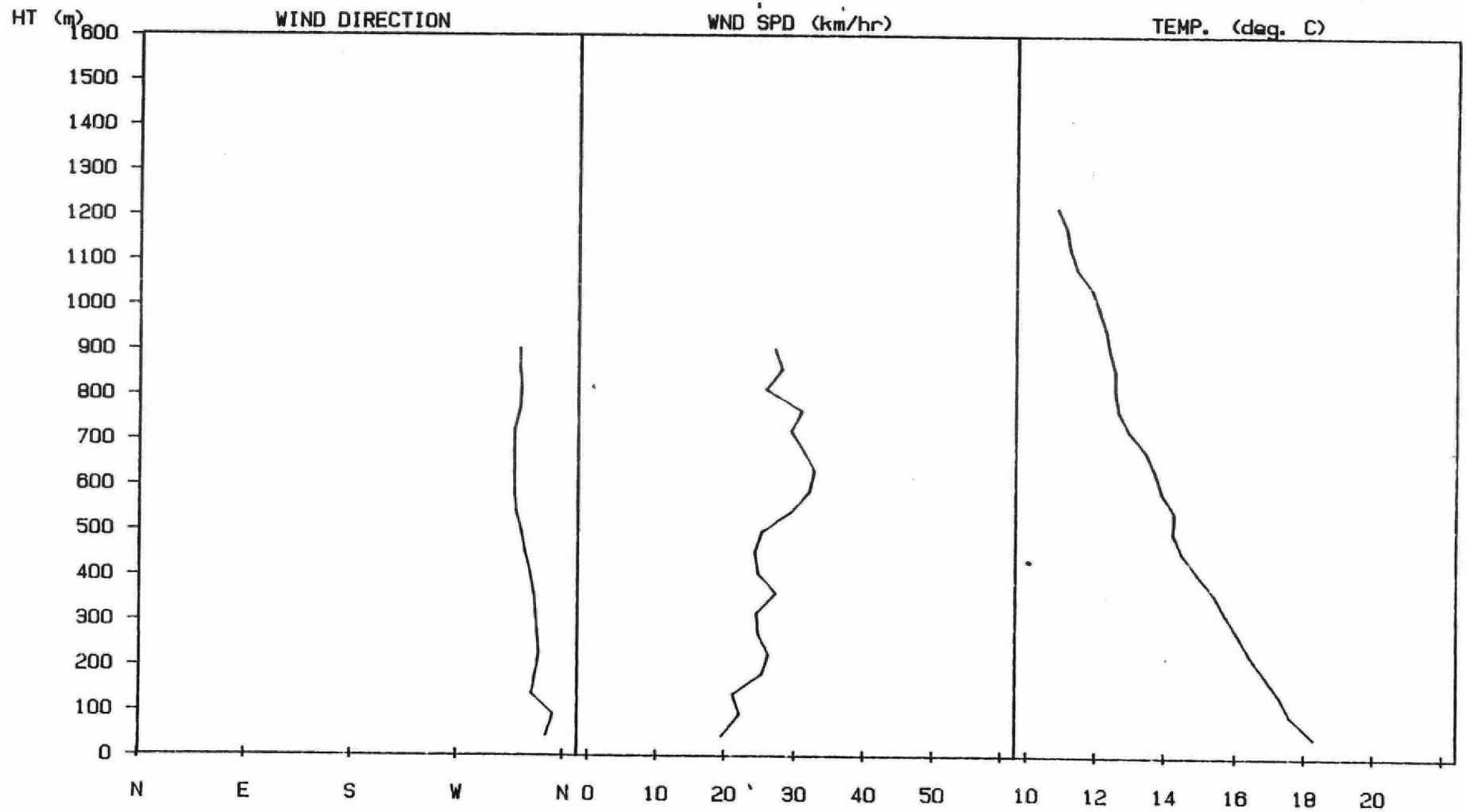
NAME: SARNIA_84_UA: 7183A
LOC: COAST GUARD SITE
MET: BROKEN CUMULUS WESTERLIES
ELEV: 195.0 m.
BASE: 146.0 m.

GND TEMP: 19.1 deg.C
BEARING : 6.0 deg.

START: 84/07/18 12:00:01
SCAN : 15 sec.

REPORT TIME: 15 sec.

ASCENT RATE: 3.0 m/sec



SINGLE THEODOLITE RUN

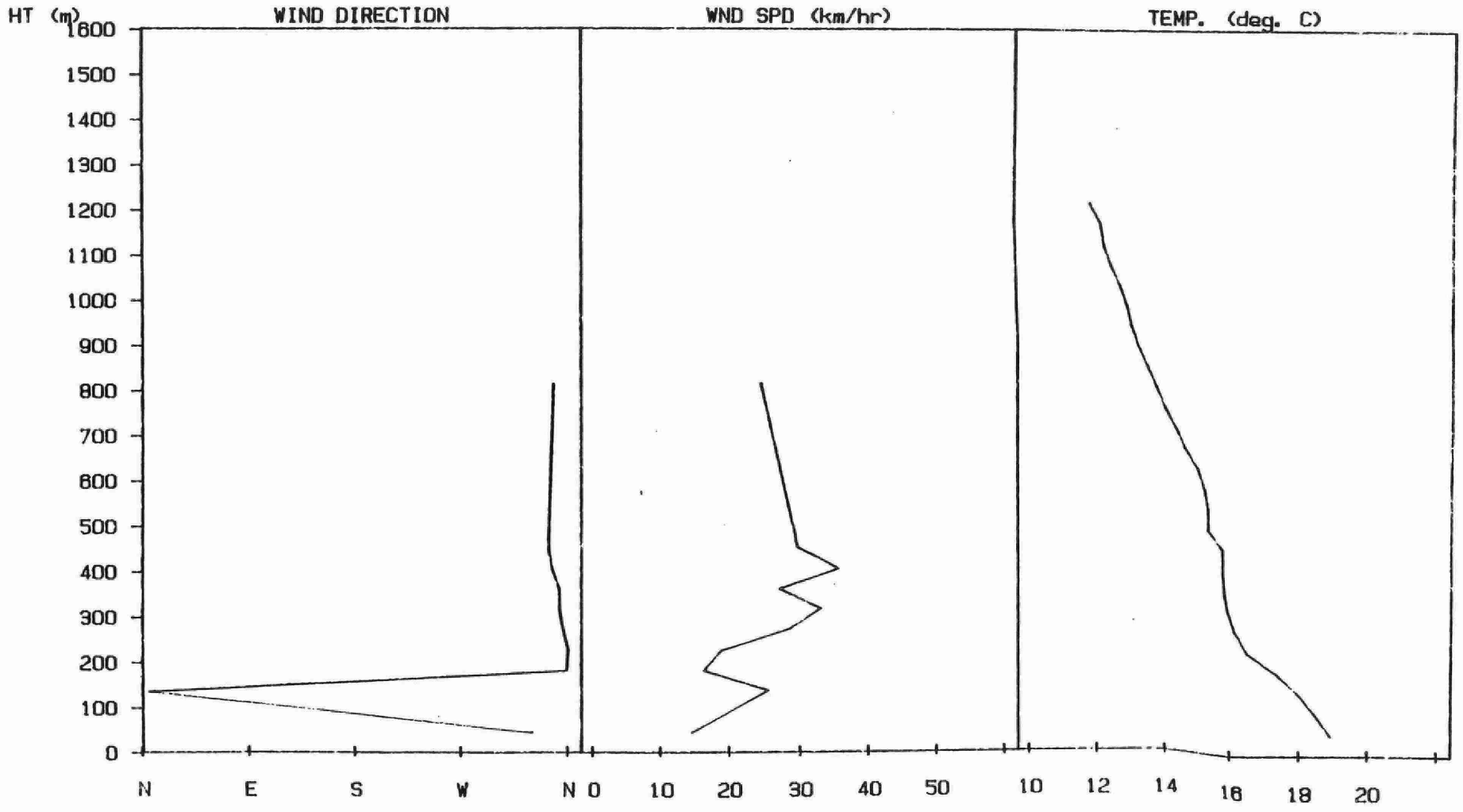
NAME: SARNIA_84_UA: 7184A
LOC: COAST GUARD SITE
MET: BROKEN CUMULUS WESTERLIES
ELEV: 195.0 m.
BASE: 146.0 m.

GND TEMP: 19.8 deg.C
BEARING : 6.0 deg.

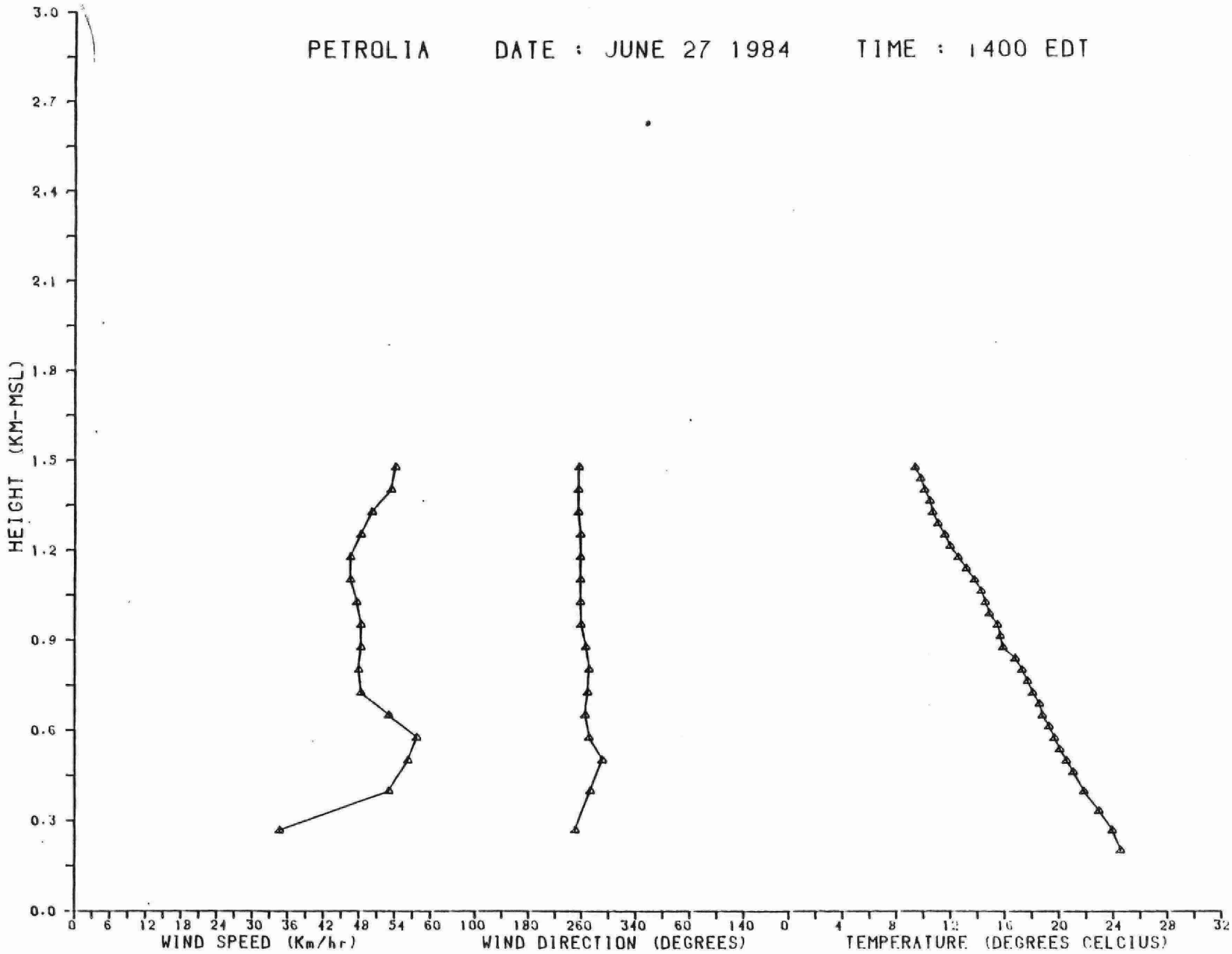
START: 84/07/18 13:00:00
SCAN : 15 sec.

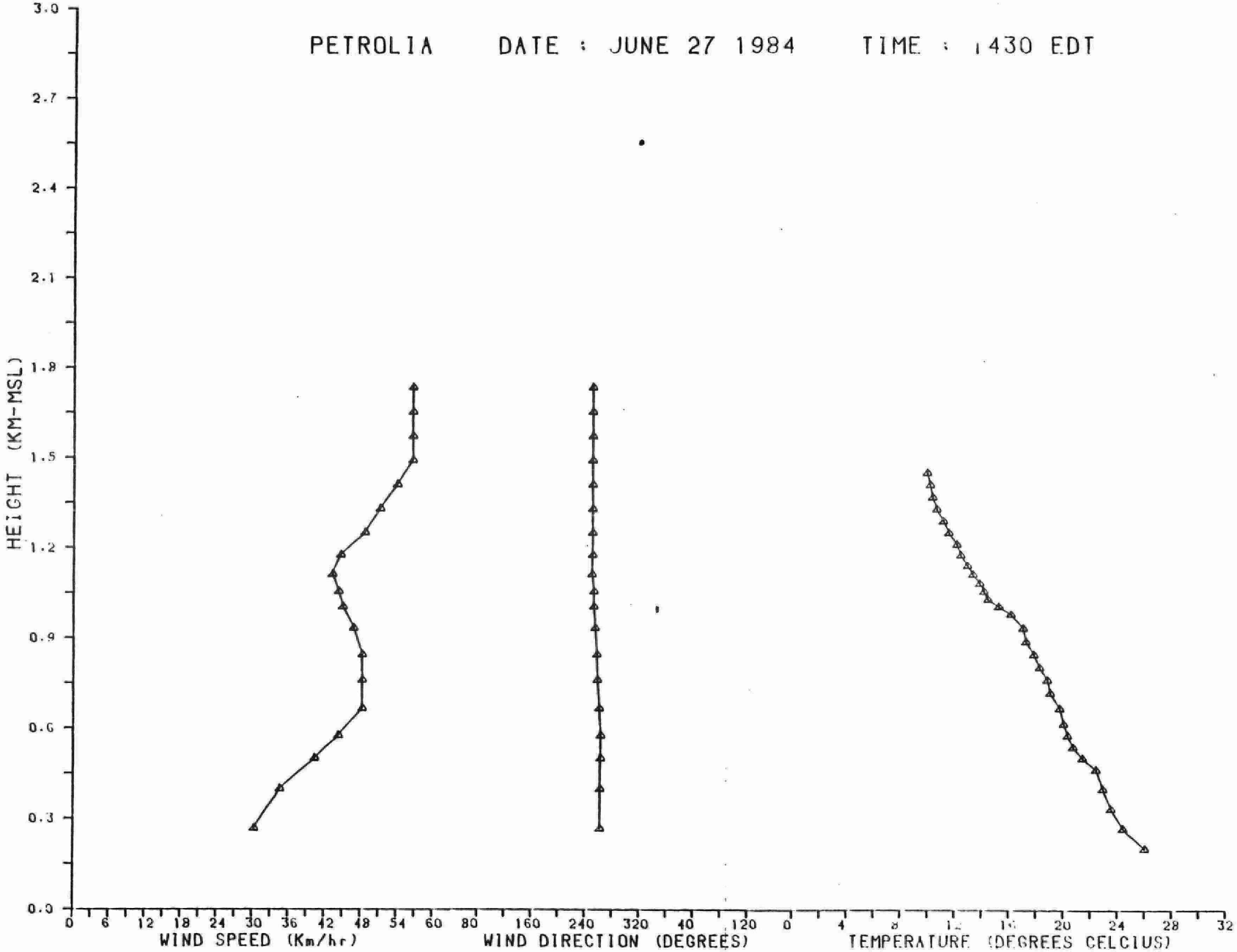
REPORT TIME: 15 sec.

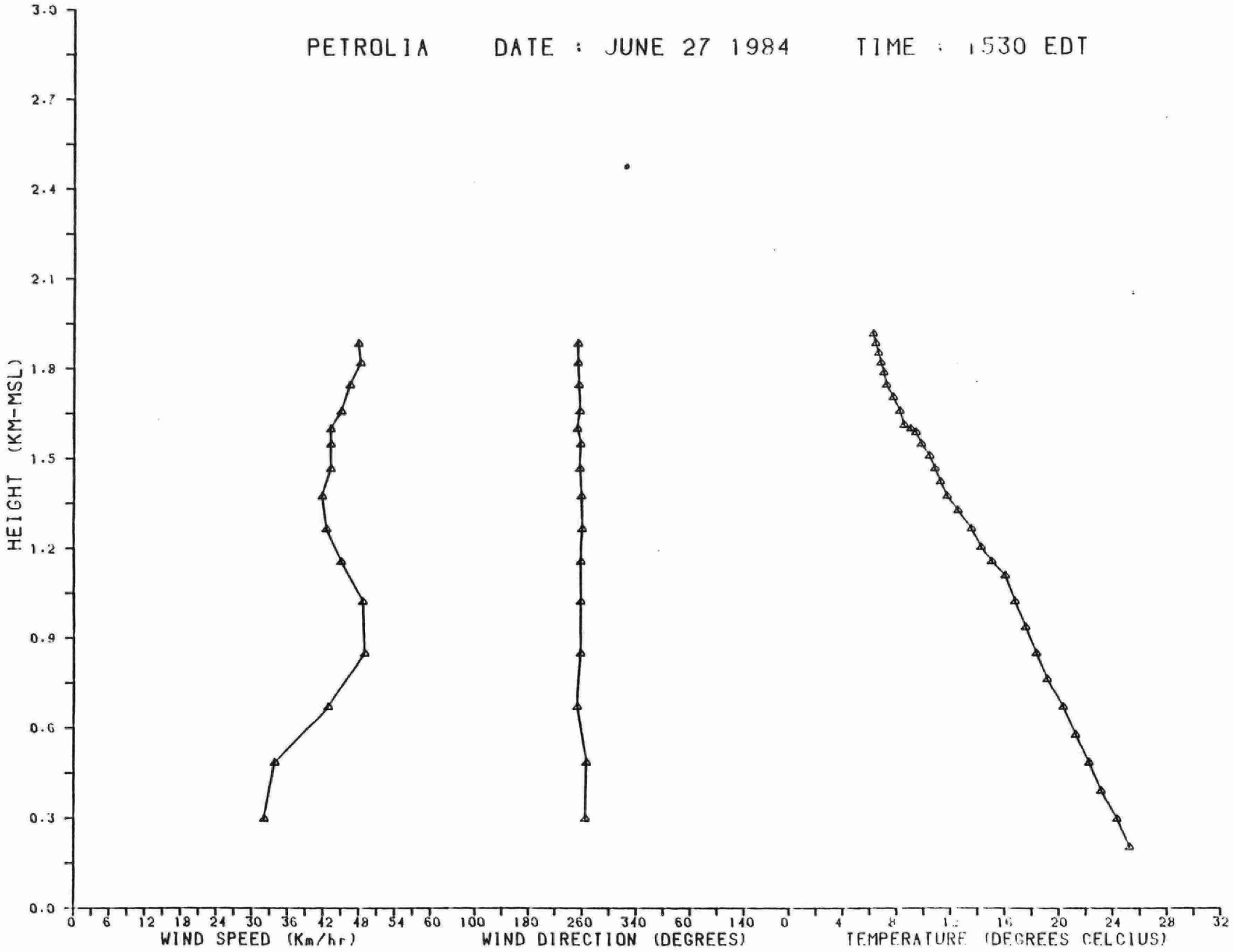
ASCENT RATE: 3.0 m/sec

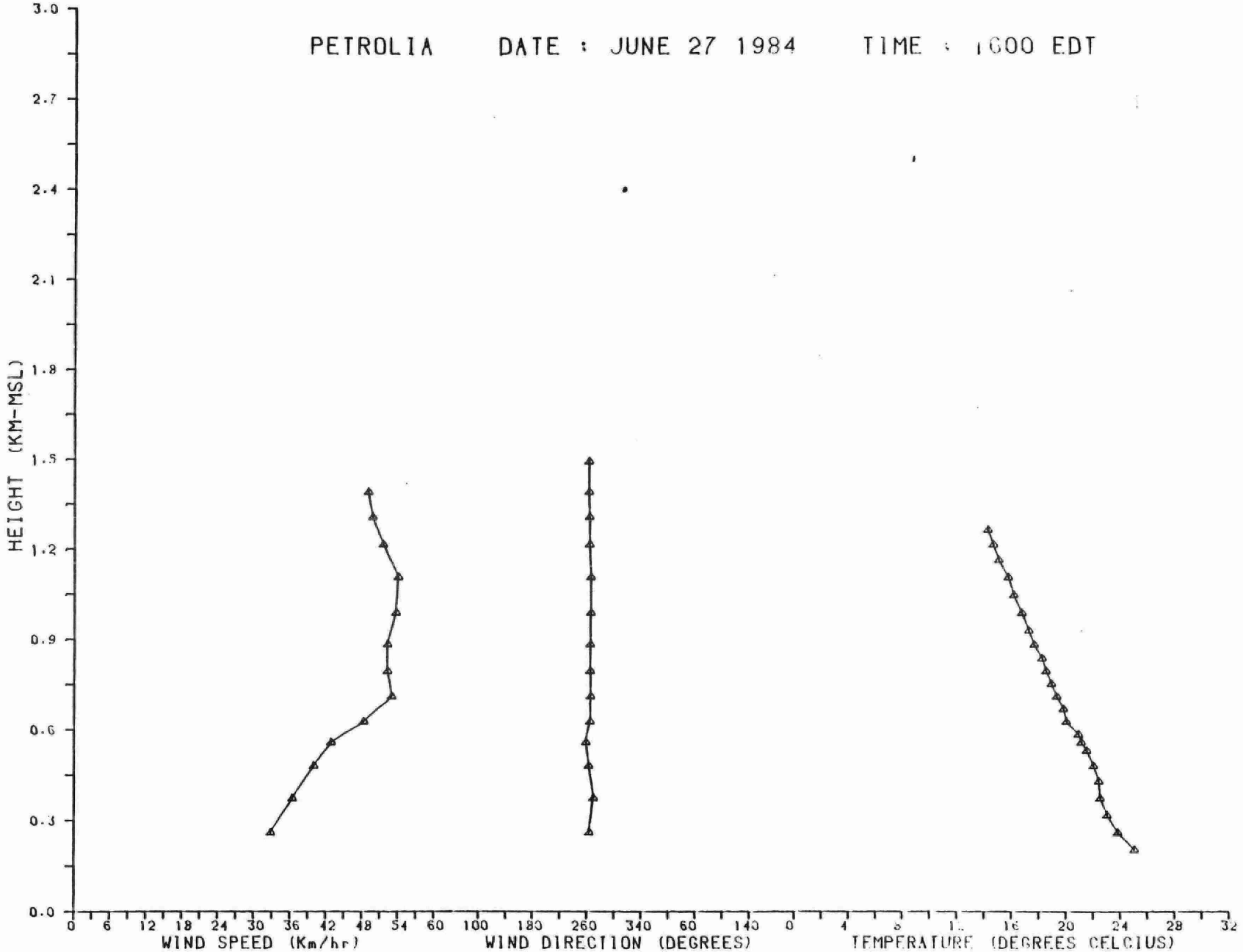


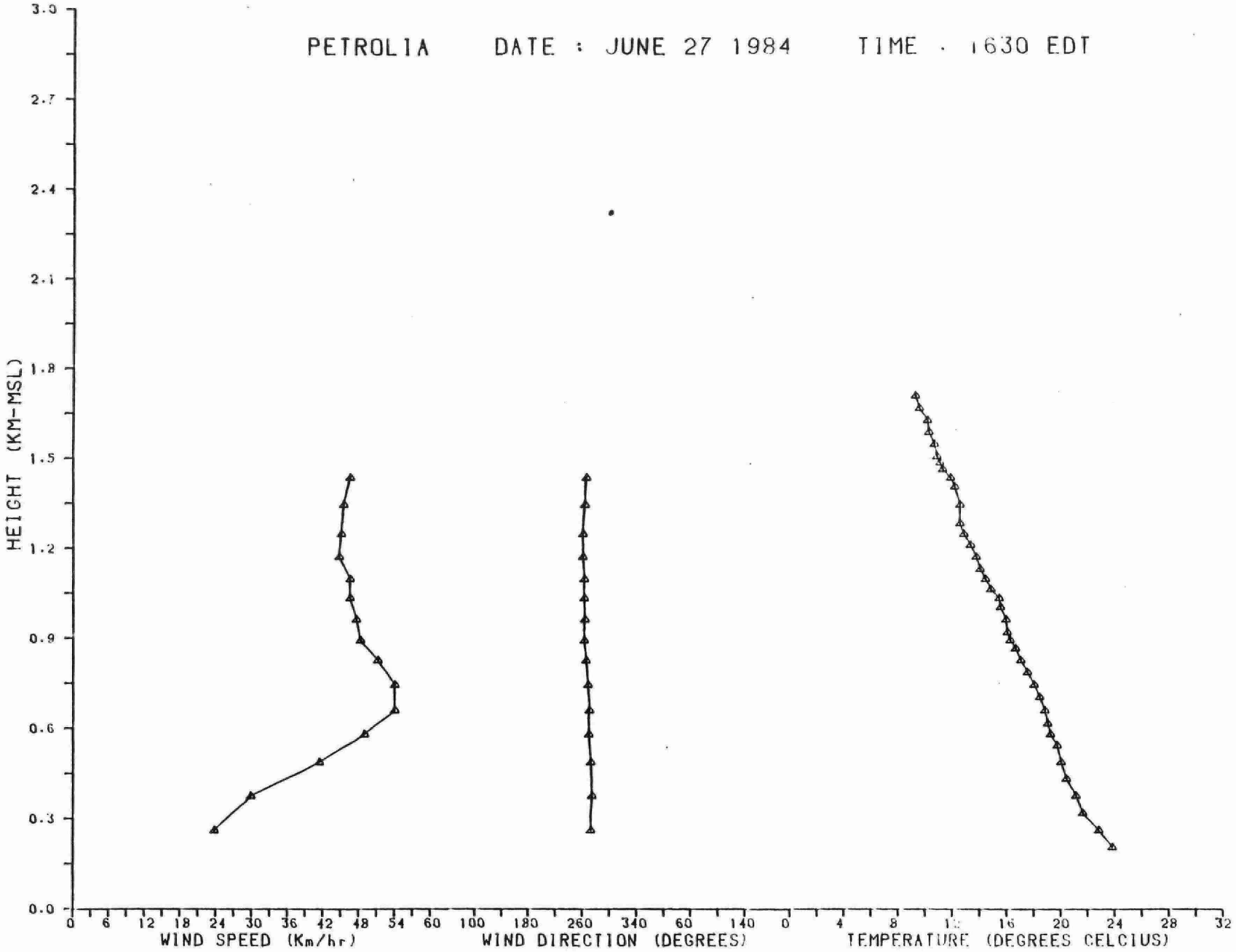
5.B MINISONDE DATA FOR PETROLIA SITE, JUNE-JULY 1984

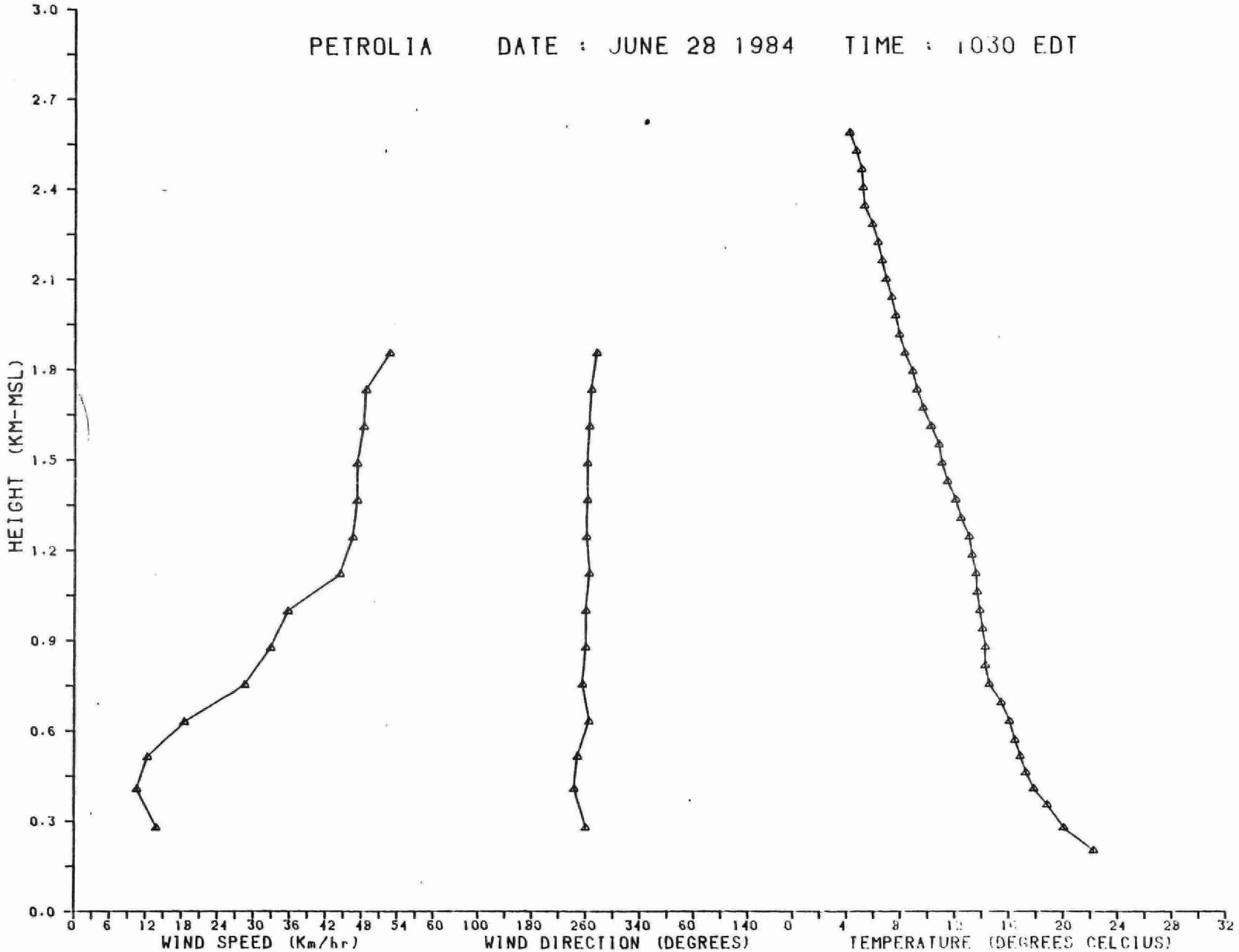

PETROLIA DATE : JUNE 27 1984 TIME : 1400 EDT
HEIGHT (KM-MSL)
3.0
2.7
2.4
2.1
1.8
1.5
1.2
0.9
0.6
0.3
0.0
0 6 12 18 24 30 36 42 48 54 60
WIND SPEED (Km/hr)
100 180 260 340 60 140 0
WIND DIRECTION (DEGREES)
4 8 12 16 20 24 28 32
TEMPERATURE (DEGREES CELCIUS)

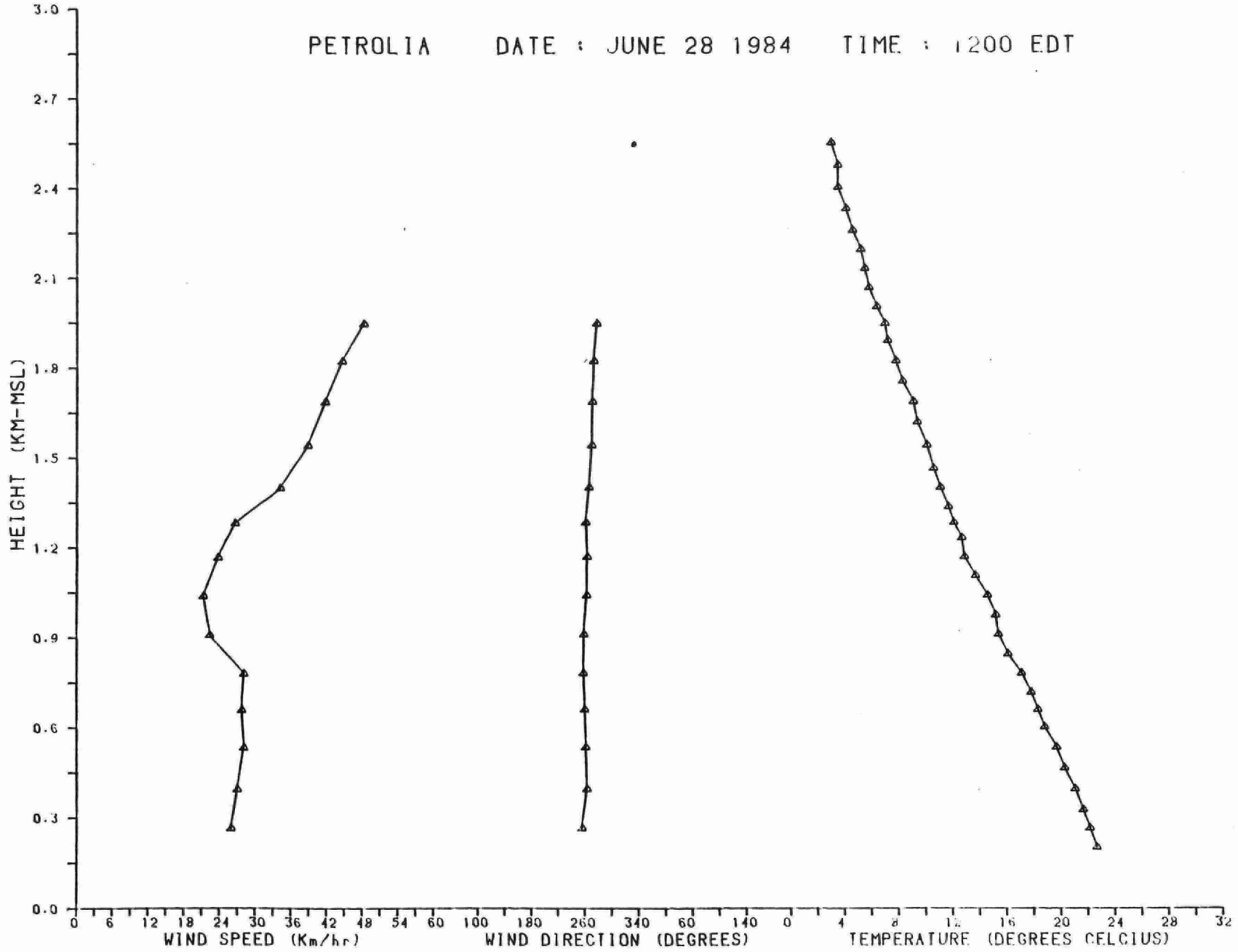

PETROLIA DATE : JUNE 27 1984 TIME : 1430 EDT
HEIGHT (KM-MSL)
3.0
2.7
2.4
2.1
1.8
1.5
1.2
0.9
0.6
0.3
0.0
0 6 12 18 24 30 36 42 48 54 60 80
WIND SPEED (Km/hr)
160 240 320 40 120 0
WIND DIRECTION (DEGREES)
4 8 12 16 20 24 28 32
TEMPERATURE (DEGREES CELCIUS)

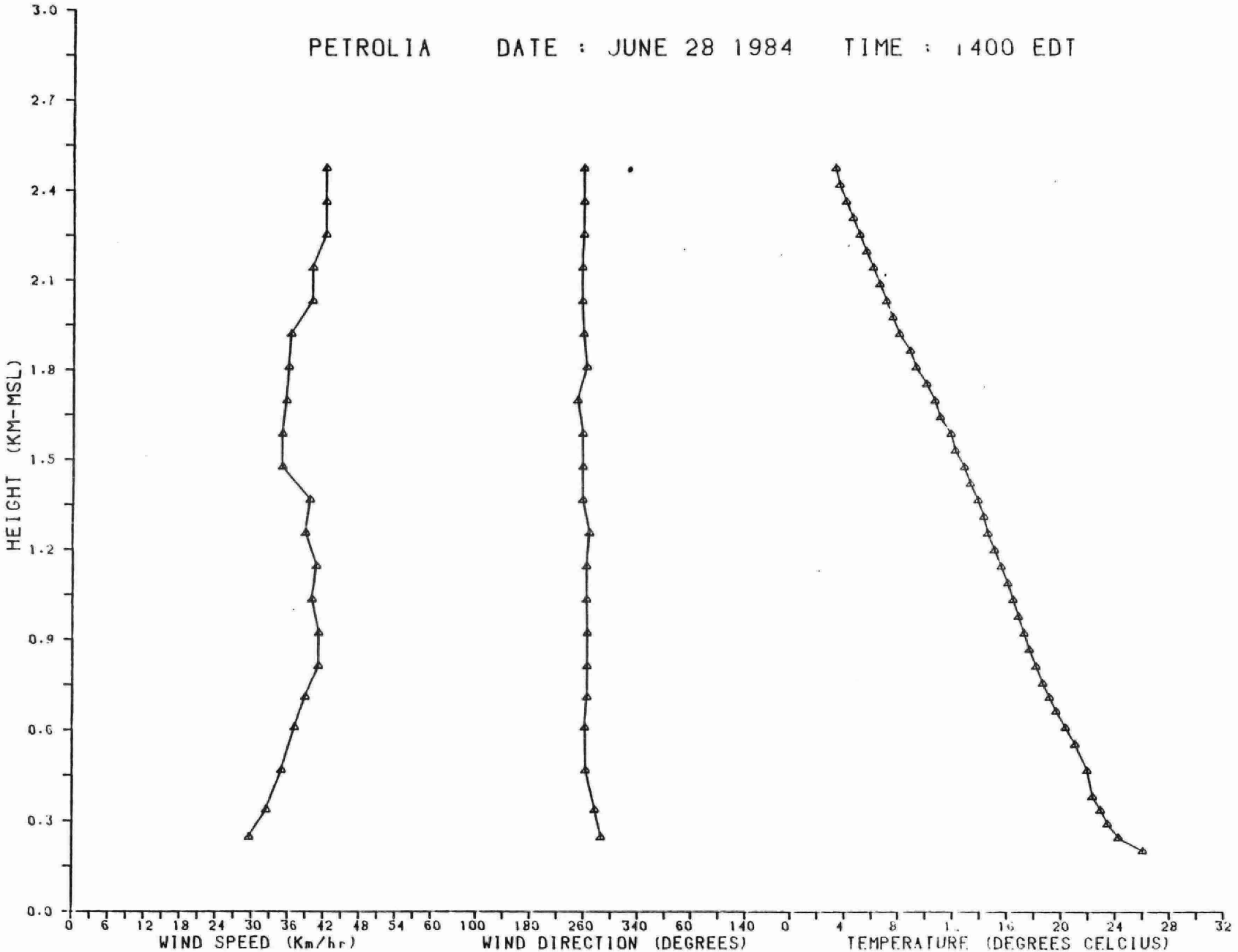

PETROLIA DATE : JUNE 27 1984 TIME : 1530 EDT
HEIGHT (KM-MSL)
3.0
2.7
2.4
2.1
1.8
1.5
1.2
0.9
0.6
0.3
0.0
0 6 12 18 24 30 36 42 48 54 60
WIND SPEED (Km/hr)
100 180 260 340 60 140 0
WIND DIRECTION (DEGREES)
4 8 12 16 20 24 28 32
TEMPERATURE (DEGREES CELCIUS)

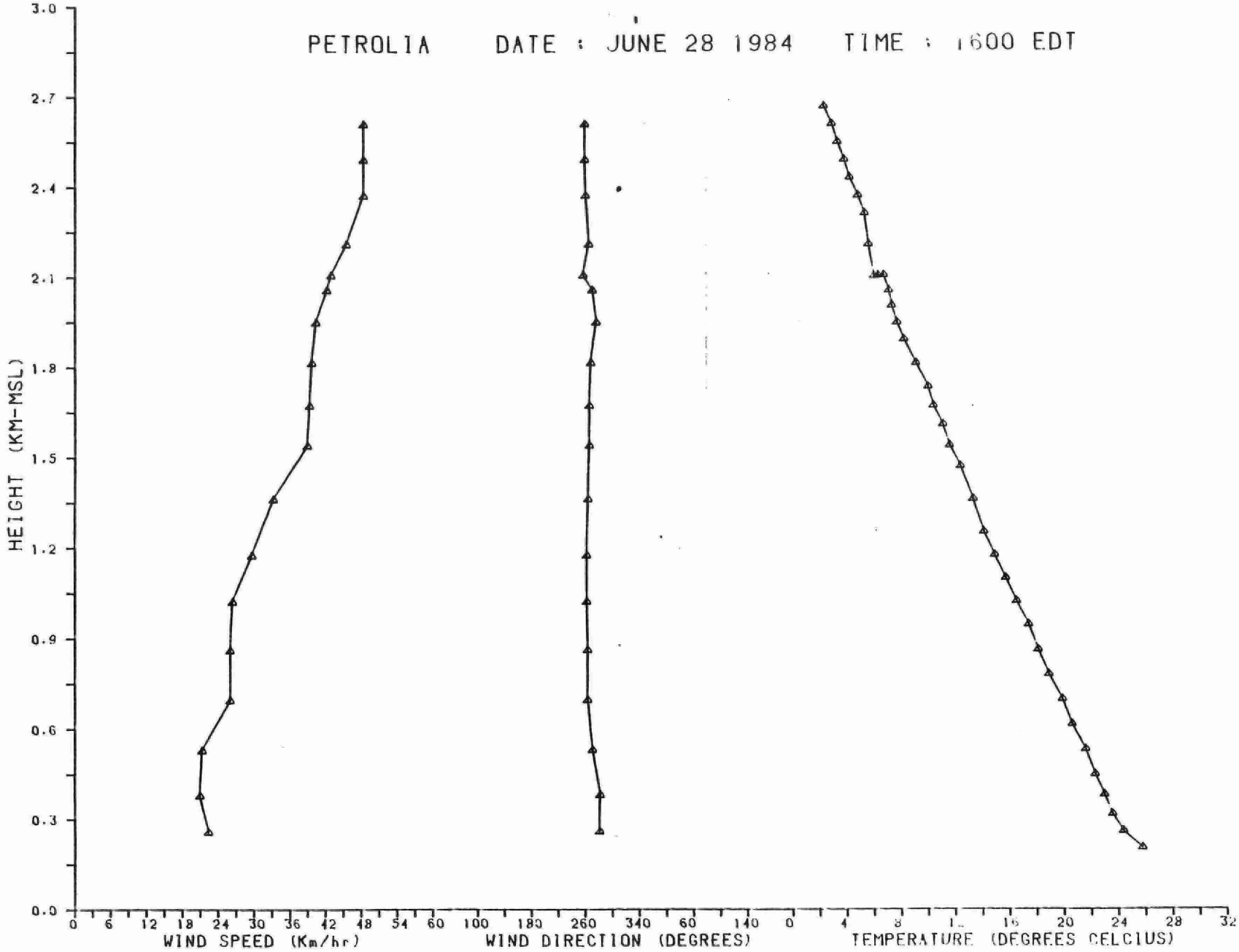

PETROLIA DATE : JUNE 27 1984 TIME : 1600 EDT
HEIGHT (KM-MSL)
3.0
2.7
2.4
2.1
1.8
1.5
1.2
0.9
0.6
0.3
0.0
0 6 12 18 24 30 36 42 48 54 60
WIND SPEED (Km/hr)
100 180 260 340 60 140
WIND DIRECTION (DEGREES)
0 4 8 12 16 20 24 28 32
TEMPERATURE (DEGREES CELCIUS)

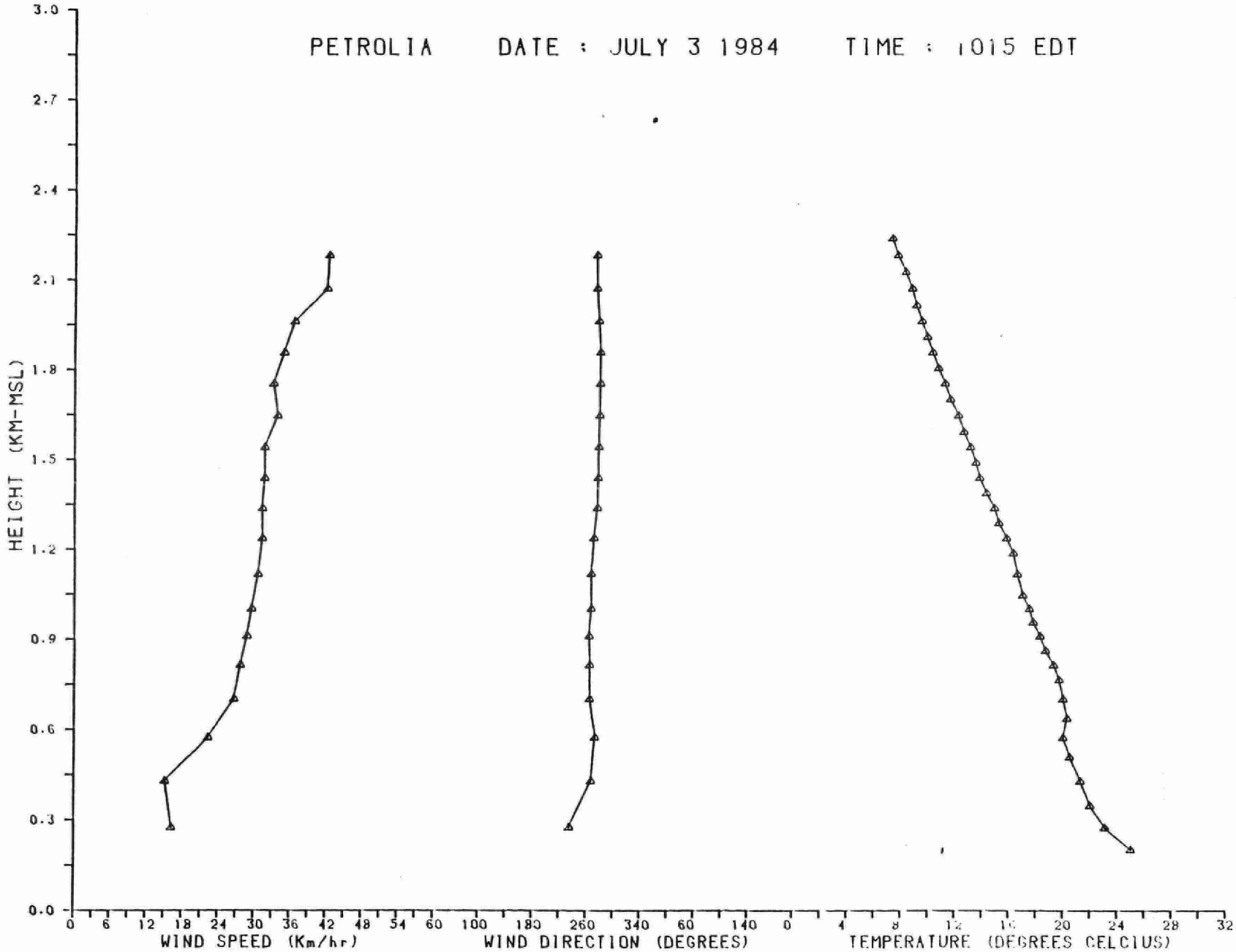

PETROLIA DATE : JUNE 27 1984 TIME : 1630 EDT
HEIGHT (KM-MSL)
3.0
2.7
2.4
2.1
1.8
1.5
1.2
0.9
0.6
0.3
0.0
0 6 12 18 24 30 36 42 48 54 60
WIND SPEED (Km/hr)
100 180 260 340 60 140 0
WIND DIRECTION (DEGREES)
4 8 12 16 20 24 28 32
TEMPERATURE (DEGREES CELCIUS)

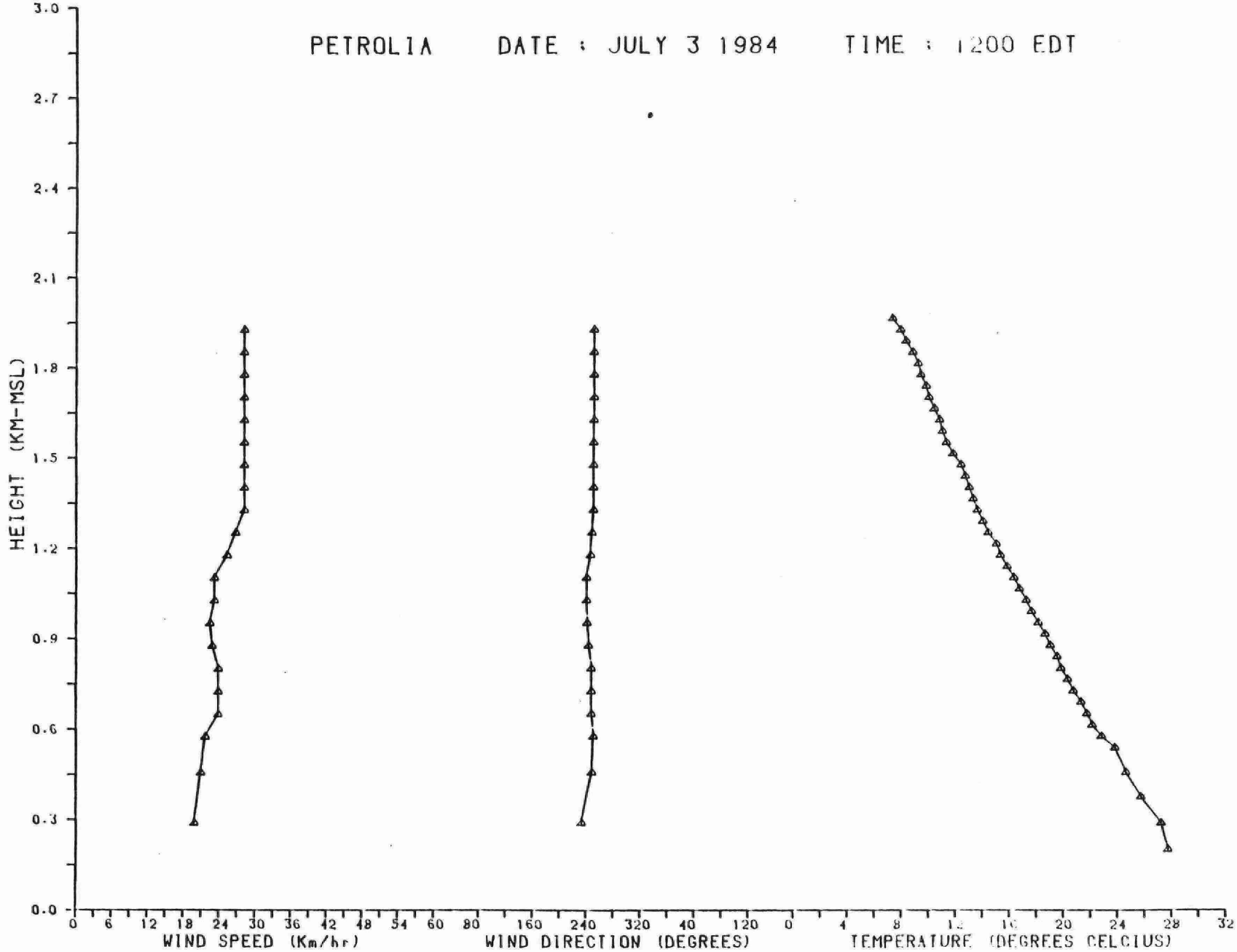

PETROLIA DATE : JUNE 28 1984 TIME : 1030 EDT
HEIGHT (KM-MSL)
3.0
2.7
2.4
2.1
1.8
1.5
1.2
0.9
0.6
0.3
0.0
0 6 12 18 24 30 36 42 48 54 60
WIND SPEED (Km/hr)
100 180 260 340 60 140 0
WIND DIRECTION (DEGREES)
4 8 12 16 20 24 28 32
TEMPERATURE (DEGREES CELCIUS)

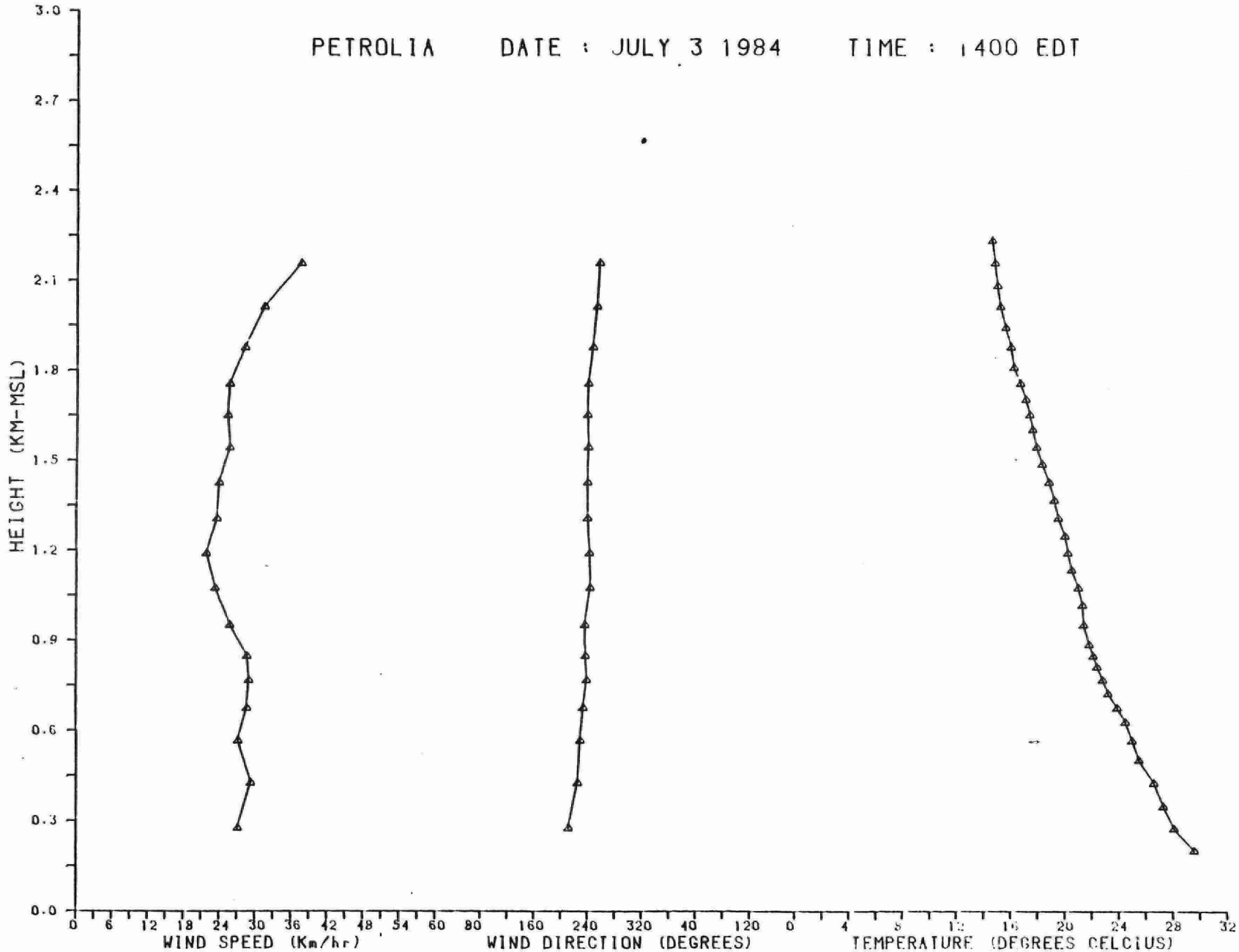

PETROLIA DATE : JUNE 28 1984 TIME : 1200 EDT
HEIGHT (KM-MSL)
3.0
2.7
2.4
2.1
1.8
1.5
1.2
0.9
0.6
0.3
0.0
0 6 12 18 24 30 36 42 48 54 60
WIND SPEED (Km/hr)
100 180 260 340 60 140 0
WIND DIRECTION (DEGREES)
4 8 12 16 20 24 28 32
TEMPERATURE (DEGREES CELCIUS)

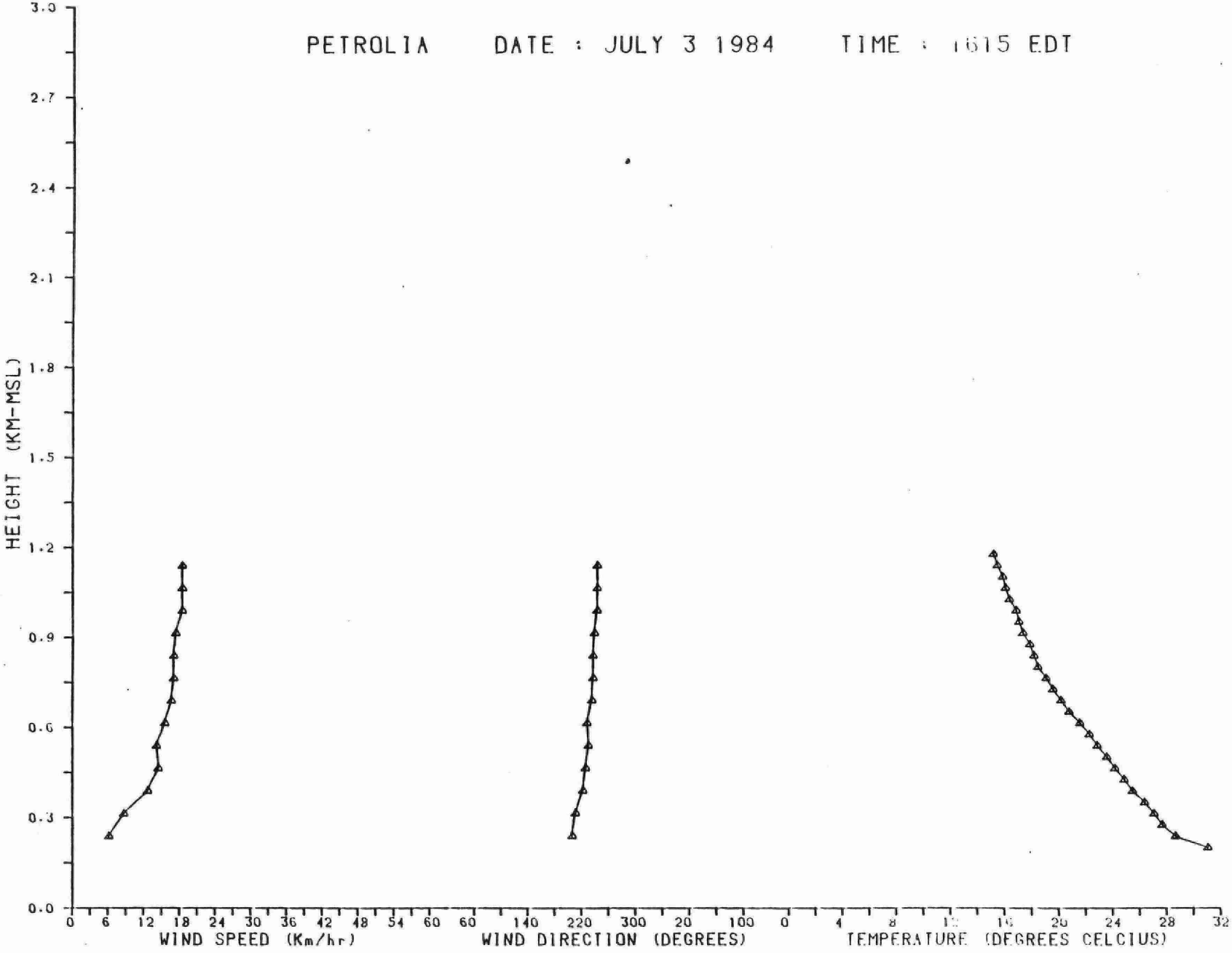

PETROLIA DATE : JUNE 28 1984 TIME : 1400 EDT
HEIGHT (KM-MSL)
3.0
2.7
2.4
2.1
1.8
1.5
1.2
0.9
0.6
0.3
0.0
0 6 12 18 24 30 36 42 48 54 60
WIND SPEED (Km/hr)
100 180 260 340 60 140 0
WIND DIRECTION (DEGREES)
4 8 12 16 20 24 28 32
TEMPERATURE (DEGREES CELCIUS)

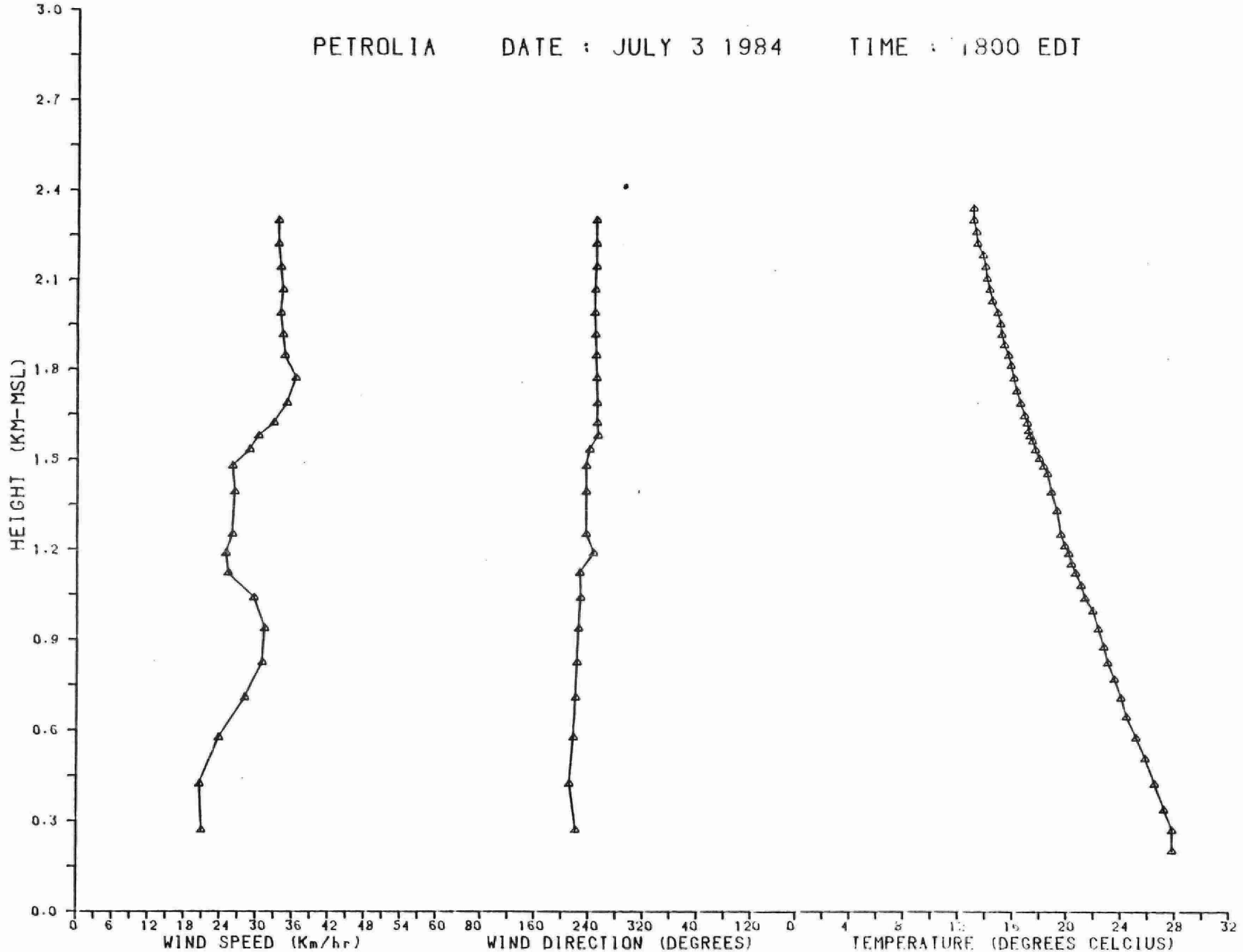

PETROLIA DATE : JUNE 28 1984 TIME : 1600 EDT
HEIGHT (KM-MSL)
3.0
2.7
2.4
2.1
1.8
1.5
1.2
0.9
0.6
0.3
0.0
0 6 12 18 24 30 36 42 48 54 60
WIND SPEED (Km/hr)
100 180 260 340 60 140 0
WIND DIRECTION (DEGREES)
4 8 12 16 20 24 28 32
TEMPERATURE (DEGREES CELCIUS)

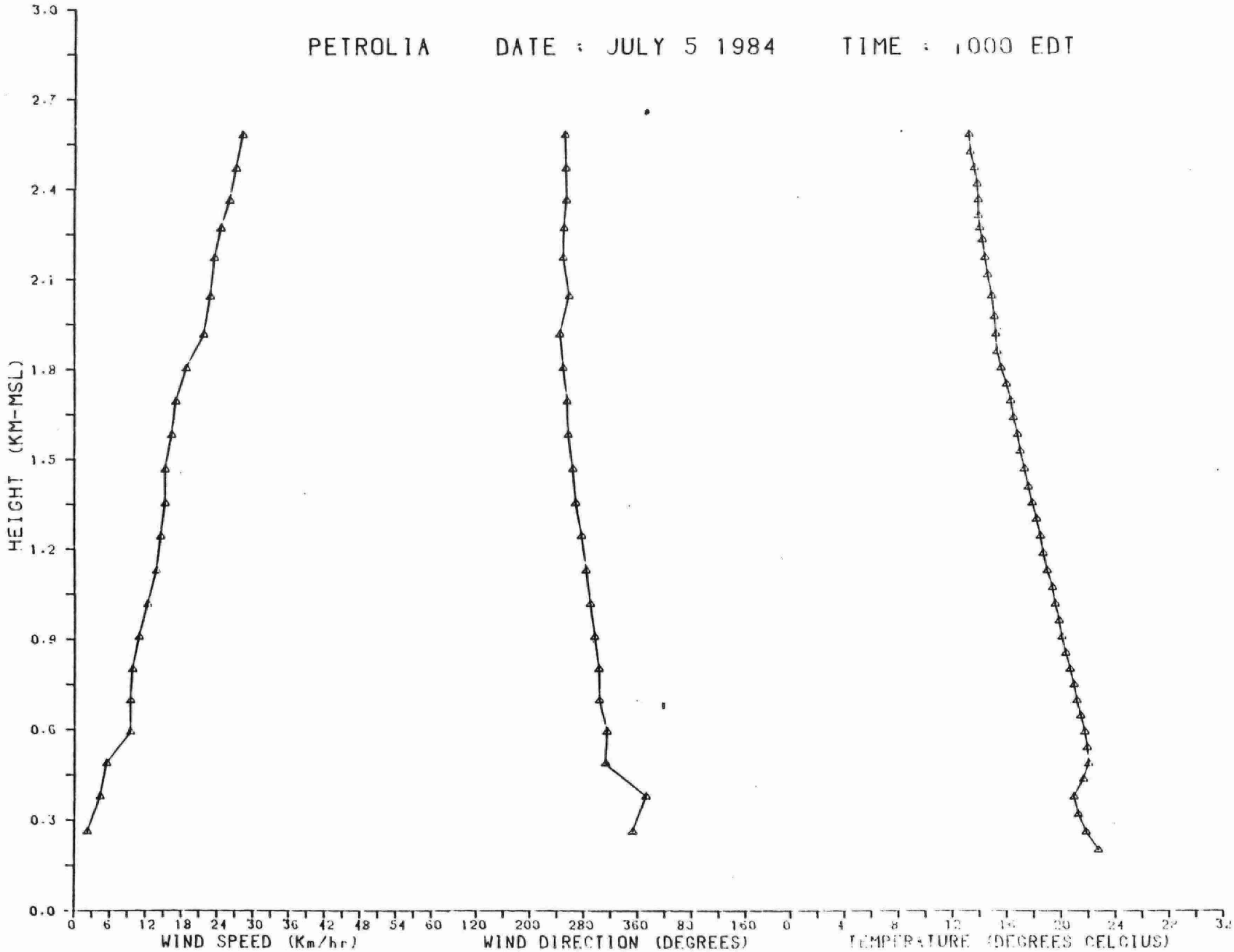

PETROLIA DATE : JULY 3 1984 TIME : 1015 EDT
HEIGHT (KM-MSL)
3.0
2.7
2.4
2.1
1.8
1.5
1.2
0.9
0.6
0.3
0.0
0 6 12 18 24 30 36 42 48 54 60
WIND SPEED (Km/hr)
100 180 260 340 60 140 0
WIND DIRECTION (DEGREES)
4 8 12 16 20 24 28 32
TEMPERATURE (DEGREES CELCIUS)

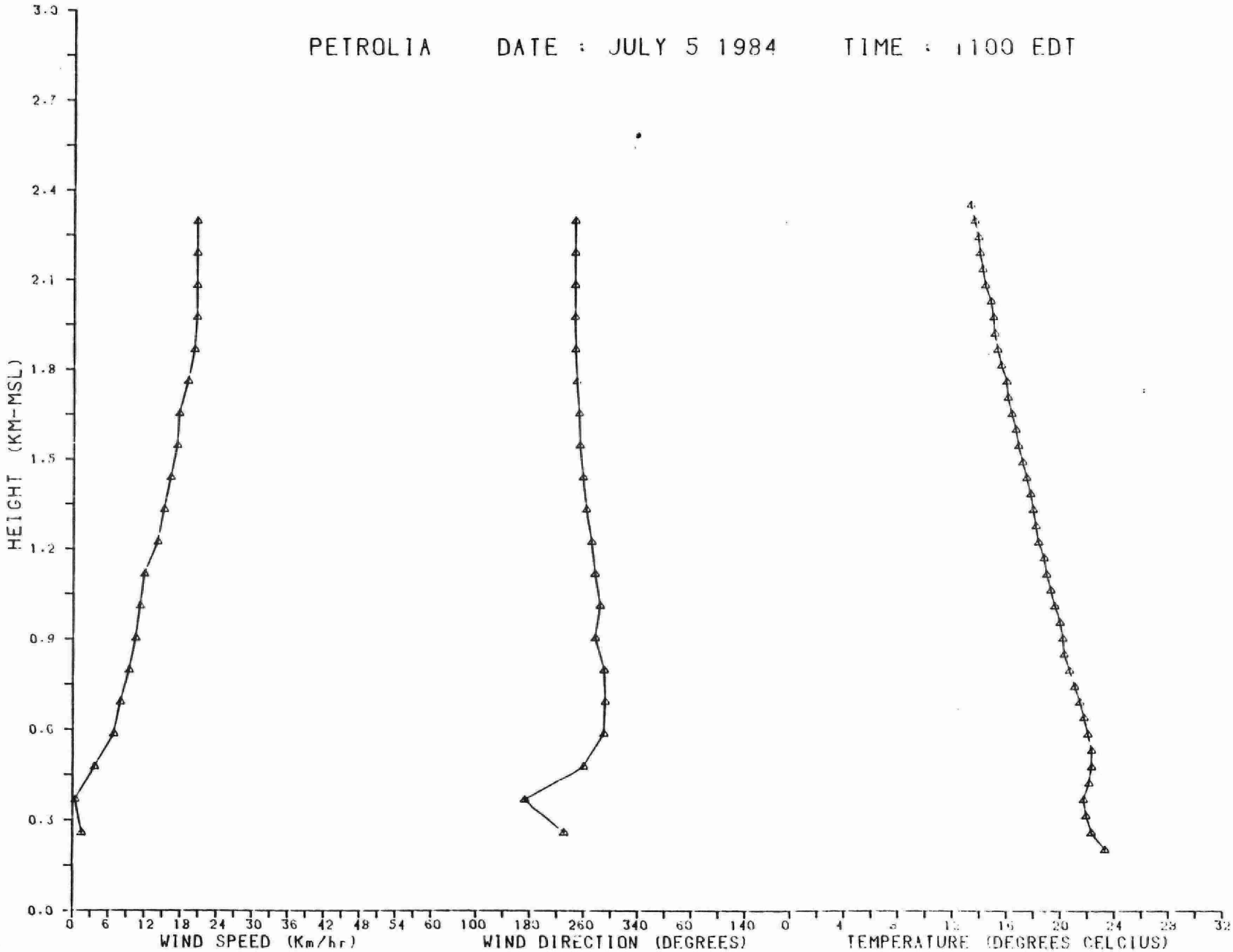

PETROLIA DATE : JULY 3 1984 TIME : 1200 EDT
HEIGHT (KM-MSL)
3.0
2.7
2.4
2.1
1.8
1.5
1.2
0.9
0.6
0.3
0.0
0 6 12 18 24 30 36 42 48 54 60
WIND SPEED (Km/hr)
80 160 240 320 40 120 0
WIND DIRECTION (DEGREES)
4 8 12 16 20 24 28 32
TEMPERATURE (DEGREES CELCIUS)

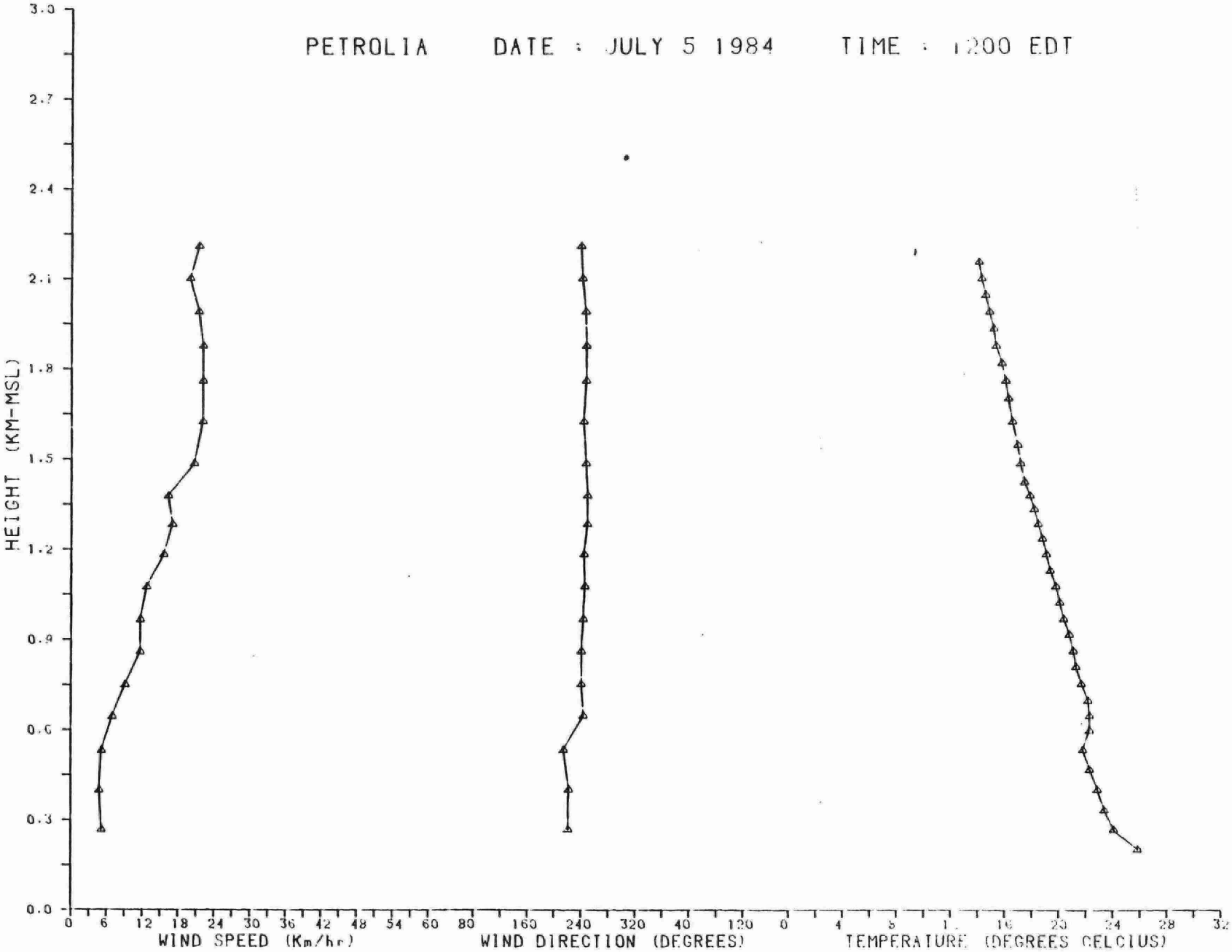

PETROLIA DATE : JULY 3 1984 TIME : 1400 EDT
HEIGHT (KM-MSL)
3.0
2.7
2.4
2.1
1.8
1.5
1.2
0.9
0.6
0.3
0.0
0 6 12 18 24 30 36 42 48 54 60 80
WIND SPEED (Km/hr)
160 240 320 40 120 0
WIND DIRECTION (DEGREES)
4 8 12 16 20 24 28 32
TEMPERATURE (DEGREES CELCIUS)

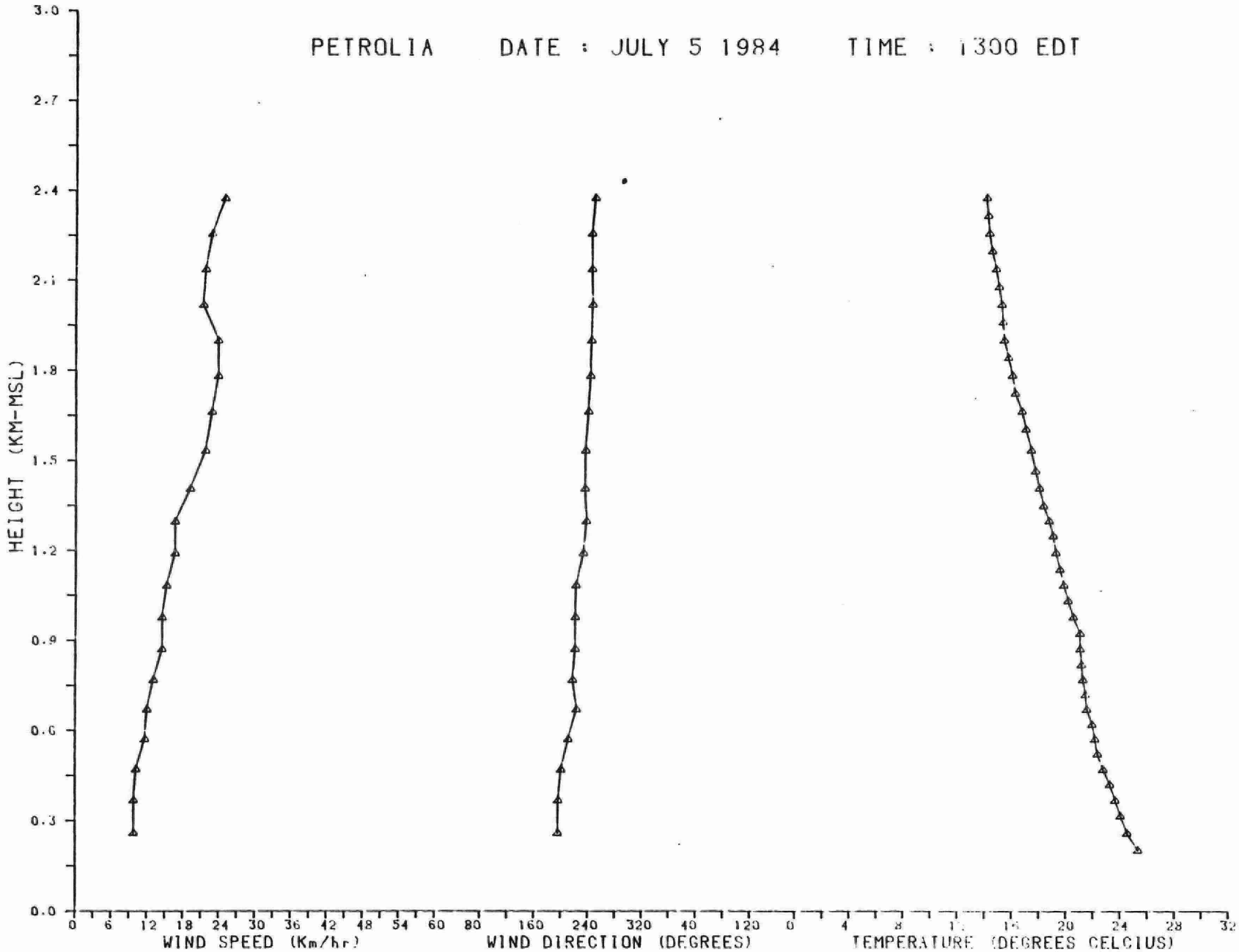

PETROLIA DATE : JULY 3 1984 TIME : 1615 EDT
HEIGHT (KM-MSL)
3.0
2.7
2.4
2.1
1.8
1.5
1.2
0.9
0.6
0.3
0.0
0 6 12 18 24 30 36 42 48 54 60
WIND SPEED (Km/hr)
60 140 220 300 20 100 0
WIND DIRECTION (DEGREES)
4 8 12 16 20 24 28 32
TEMPERATURE (DEGREES CELCIUS)

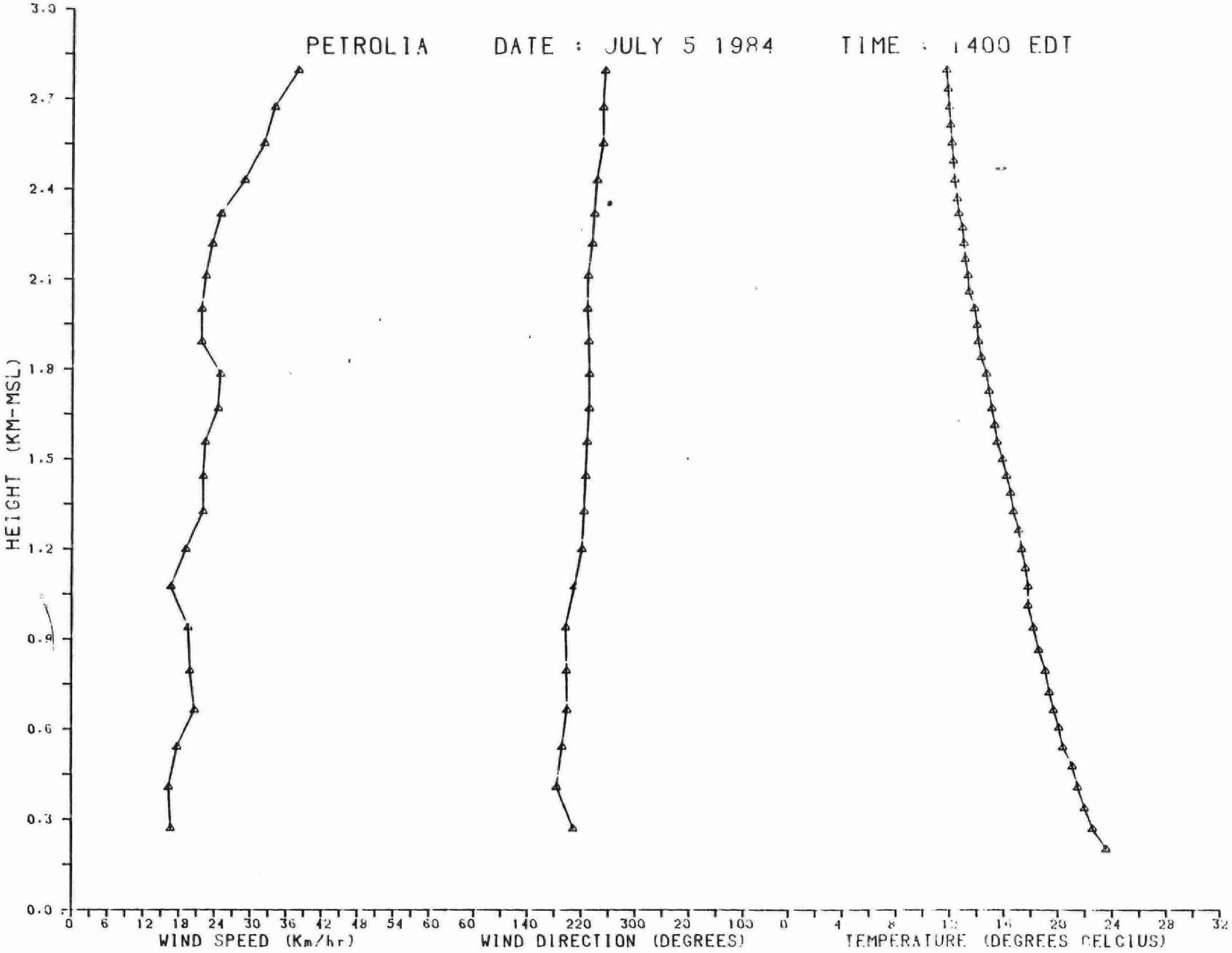

PETROLIA DATE : JULY 3 1984 TIME : 1800 EDT
HEIGHT (KM-MSL)
3.0
2.7
2.4
2.1
1.8
1.5
1.2
0.9
0.6
0.3
0.0
0 6 12 18 24 30 36 42 48 54 60 80
WIND SPEED (Km/hr)
160 240 320 40 120 0
WIND DIRECTION (DEGREES)
4 8 12 16 20 24 28 32
TEMPERATURE (DEGREES CELCIUS)

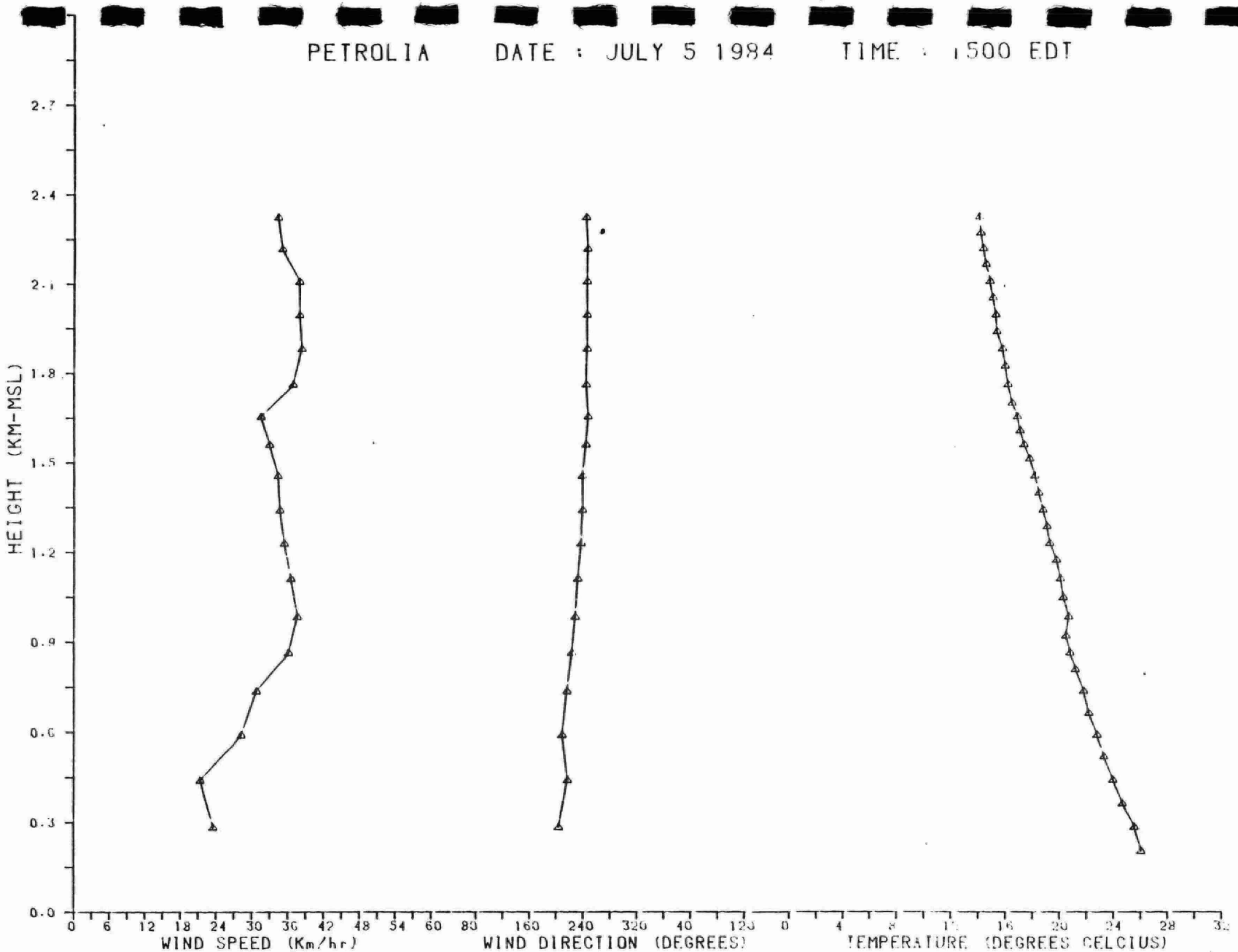

PETROLIA DATE : JULY 5 1984 TIME : 1000 EDT
HEIGHT (KM-MSL)
3.0
2.7
2.4
2.1
1.8
1.5
1.2
0.9
0.6
0.3
0.0
0 6 12 18 24 30 36 42 48 54 60
WIND SPEED (Km/hr)
120 200 280 360 80 160
WIND DIRECTION (DEGREES)
0 4 8 12 16 20 24 28 32
TEMPERATURE (DEGREES CELCIUS)

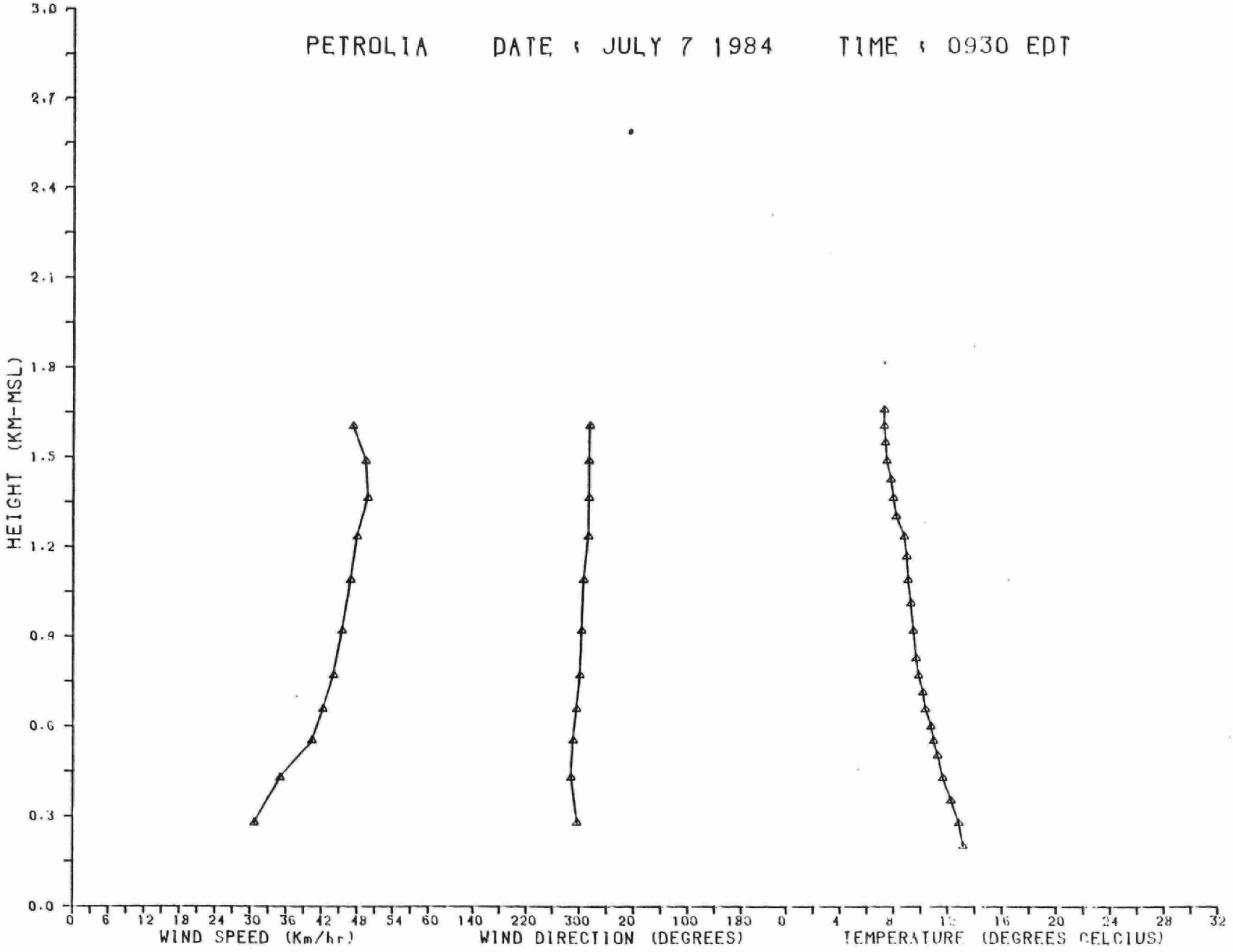

PETROLIA DATE : JULY 5 1984 TIME : 1100 EDT
HEIGHT (KM-MSL)
3.0
2.7
2.4
2.1
1.8
1.5
1.2
0.9
0.6
0.3
0.0
0 6 12 18 24 30 36 42 48 54 60
WIND SPEED (Km/hr)
100 180 260 340 60 140 0
WIND DIRECTION (DEGREES)
4
TEMPERATURE (DEGREES CELCIUS)

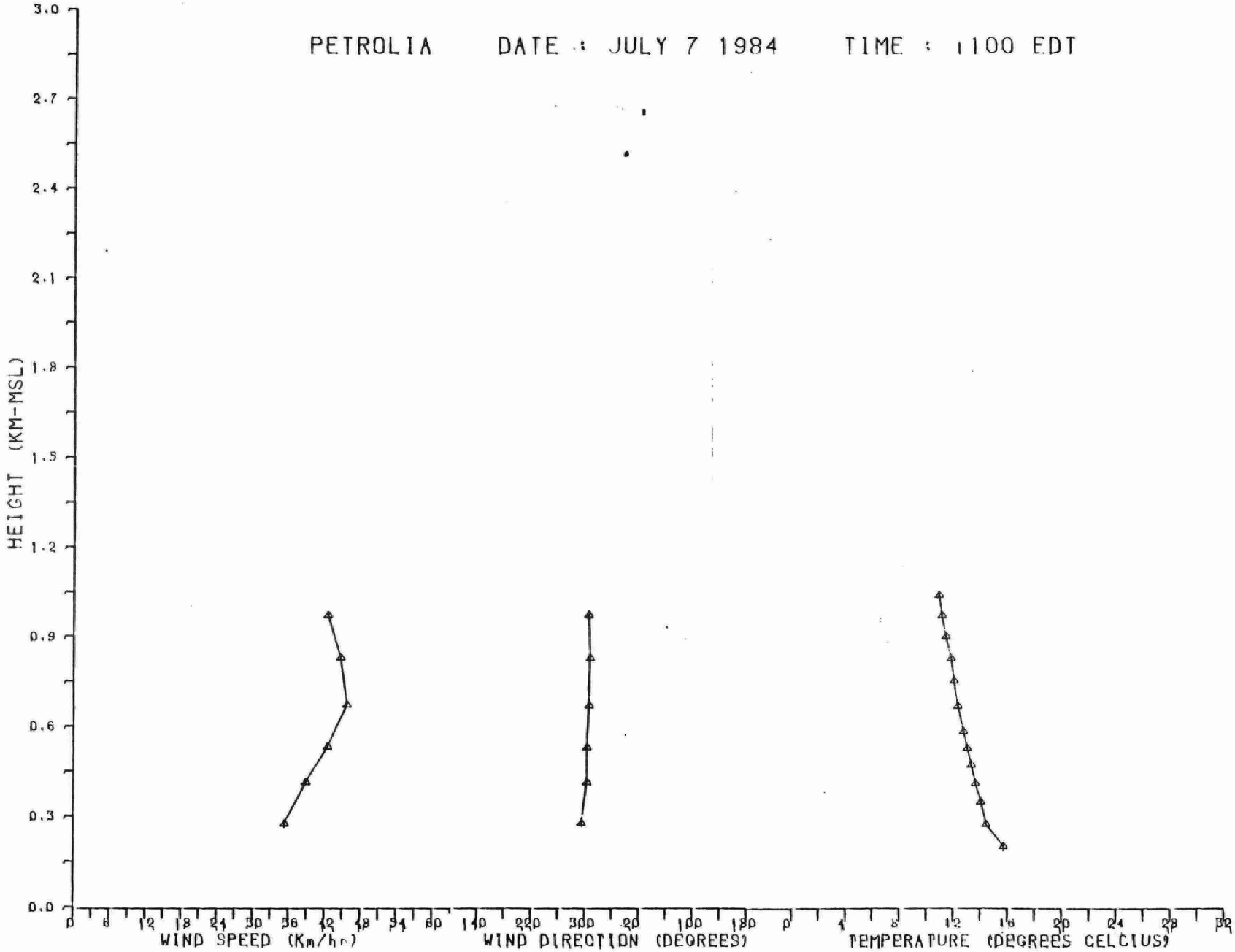

PETROLIA DATE : JULY 5 1984 TIME : 1200 EDT
HEIGHT (KM-MSL)
3.0
2.7
2.4
2.1
1.8
1.5
1.2
0.9
0.6
0.3
0.0
0 6 12 18 24 30 36 42 48 54 60 80
WIND SPEED (Km/hr)
160 240 320 40 120 0
WIND DIRECTION (DEGREES)
4 8 12 16 20 24 28 32
TEMPERATURE (DEGREES CELCIUS)

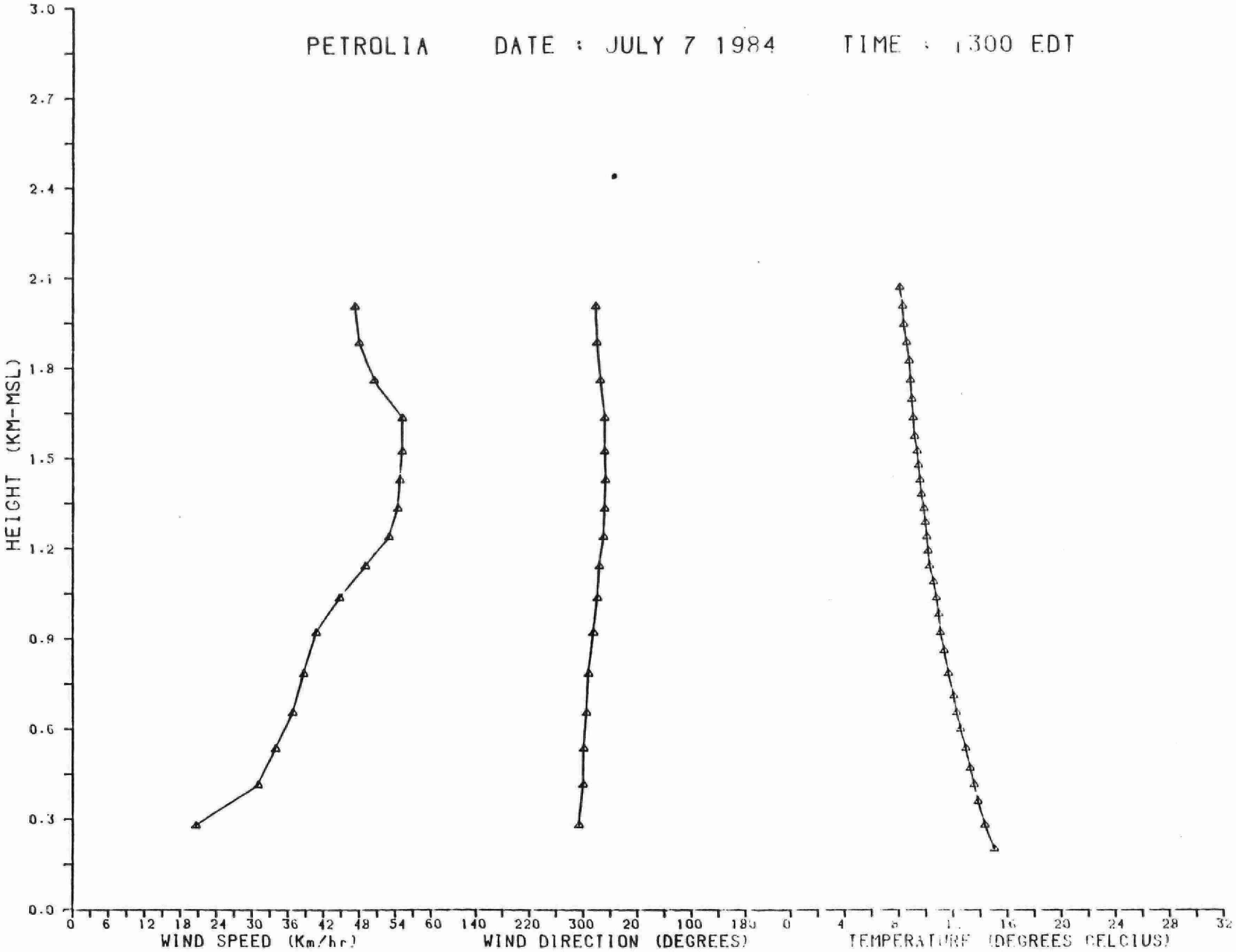

PETROLIA DATE : JULY 5 1984 TIME : 1300 EDT
HEIGHT (KM-MSL)
3.0
2.7
2.4
2.1
1.8
1.5
1.2
0.9
0.6
0.3
0.0
0 6 12 18 24 30 36 42 48 54 60
WIND SPEED (Km/hr)
80 160 240 320 40 120 0
WIND DIRECTION (DEGREES)
4 8 12 16 20 24 28 32
TEMPERATURE (DEGREES CELCIUS)

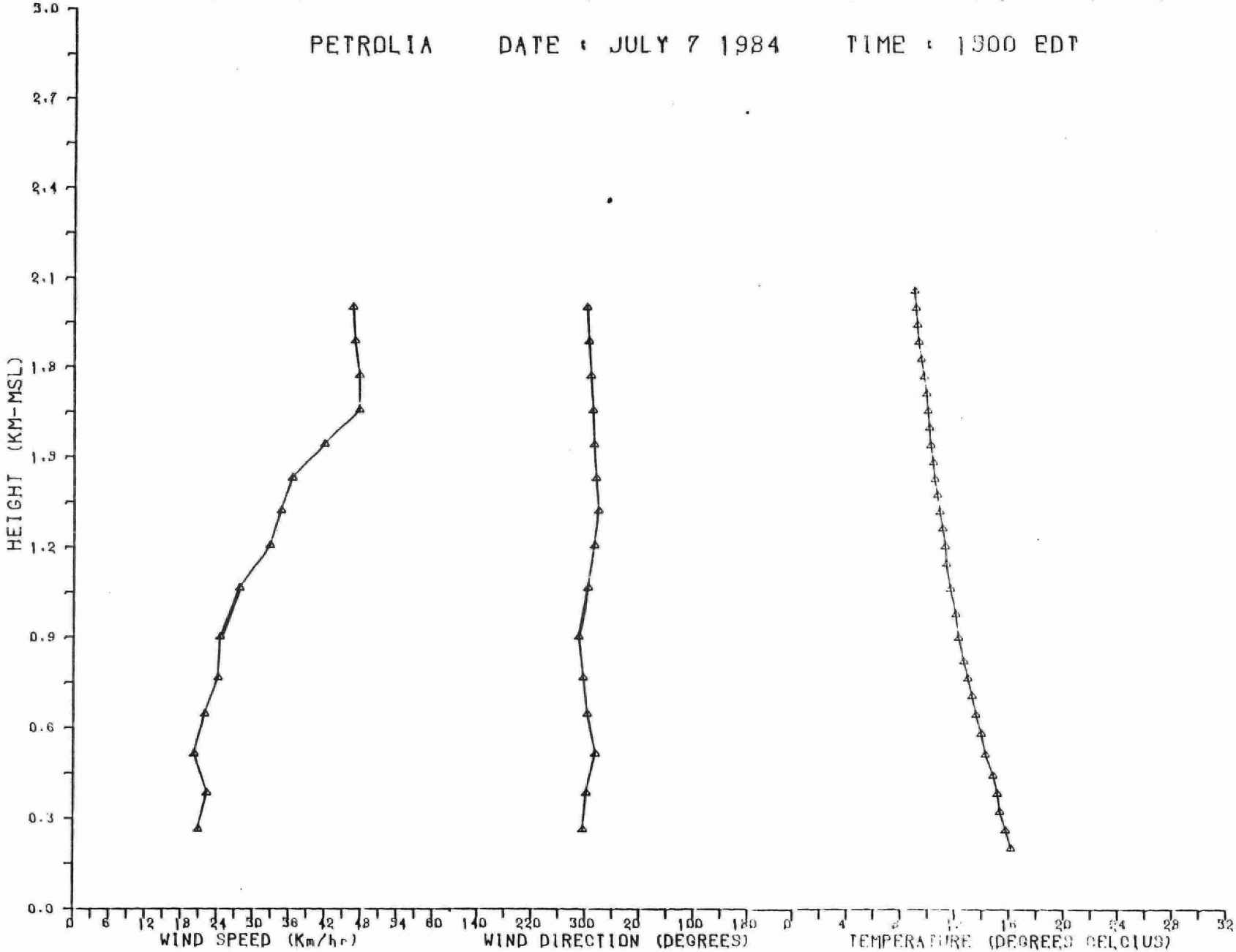

PETROLIA DATE : JULY 5 1984 TIME : 1400 EDT
HEIGHT (KM-MSL)
3.0
2.7
2.4
2.1
1.8
1.5
1.2
0.9
0.6
0.3
0.0
0 6 12 18 24 30 36 42 48 54 60
WIND SPEED (Km/hr)
60 140 220 300 20 100 0
WIND DIRECTION (DEGREES)
4 8 12 16 20 24 28 32
TEMPERATURE (DEGREES CELCIUS)

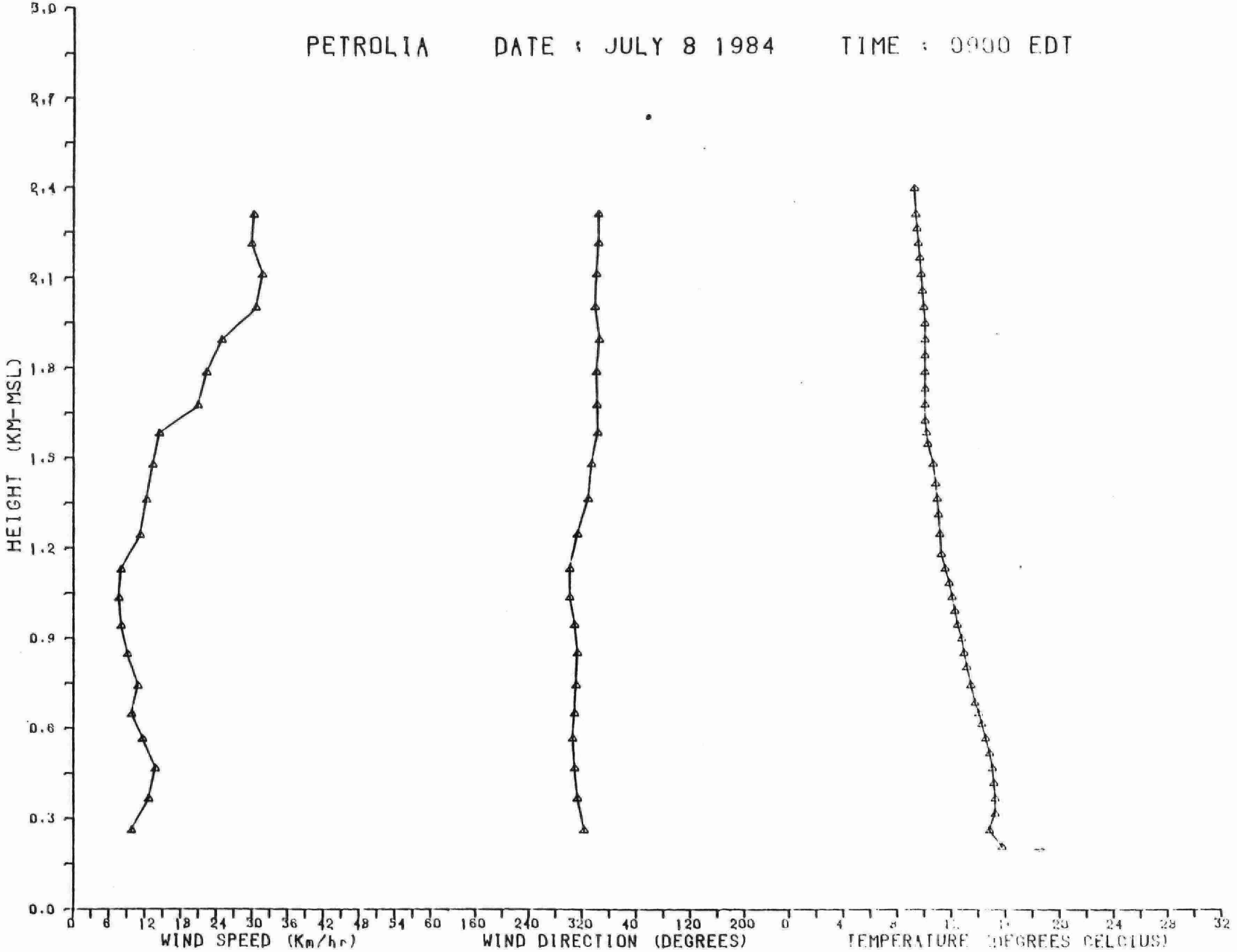

PETROLIA DATE : JULY 5 1984 TIME : 1500 EDT
HEIGHT (KM-MSL)
2.7
2.4
2.1
1.8
1.5
1.2
0.9
0.6
0.3
0.0
0 6 12 18 24 30 36 42 48 54 60 80
WIND SPEED (Km/hr)
160 240 320 40 120 0
WIND DIRECTION (DEGREES)
4 8 12 16 20 24 28 32
TEMPERATURE (DEGREES CELCIUS)

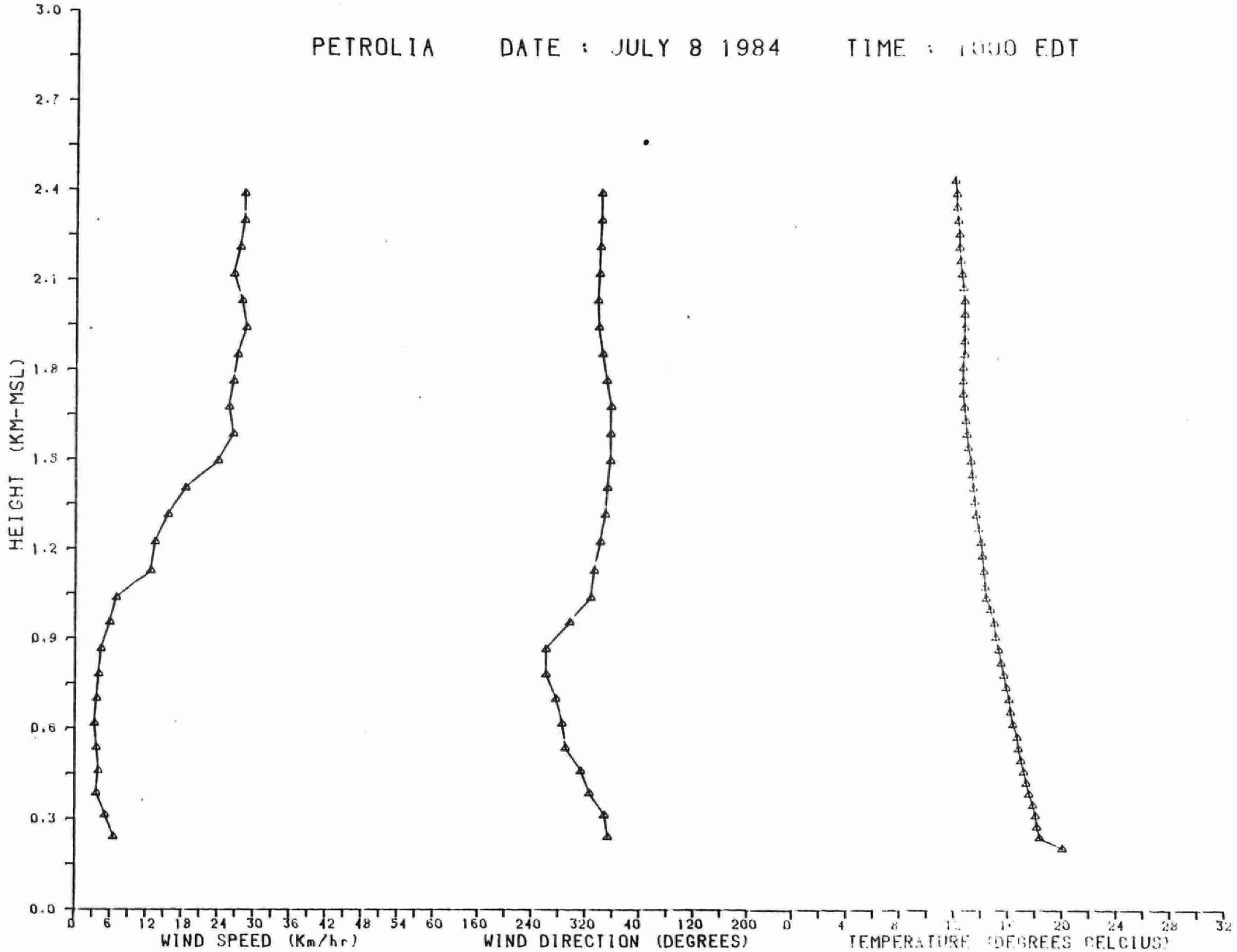

PETROLIA DATE : JULY 7 1984 TIME : 0930 EDT
HEIGHT (KM-MSL)
3.0
2.7
2.4
2.1
1.8
1.5
1.2
0.9
0.6
0.3
0.0
0 6 12 18 24 30 36 42 48 54 60
WIND SPEED (Km/hr)
140 220 300 20 100 180 0
WIND DIRECTION (DEGREES)
4 8 12 16 20 24 28 32
TEMPERATURE (DEGREES CELCIUS)

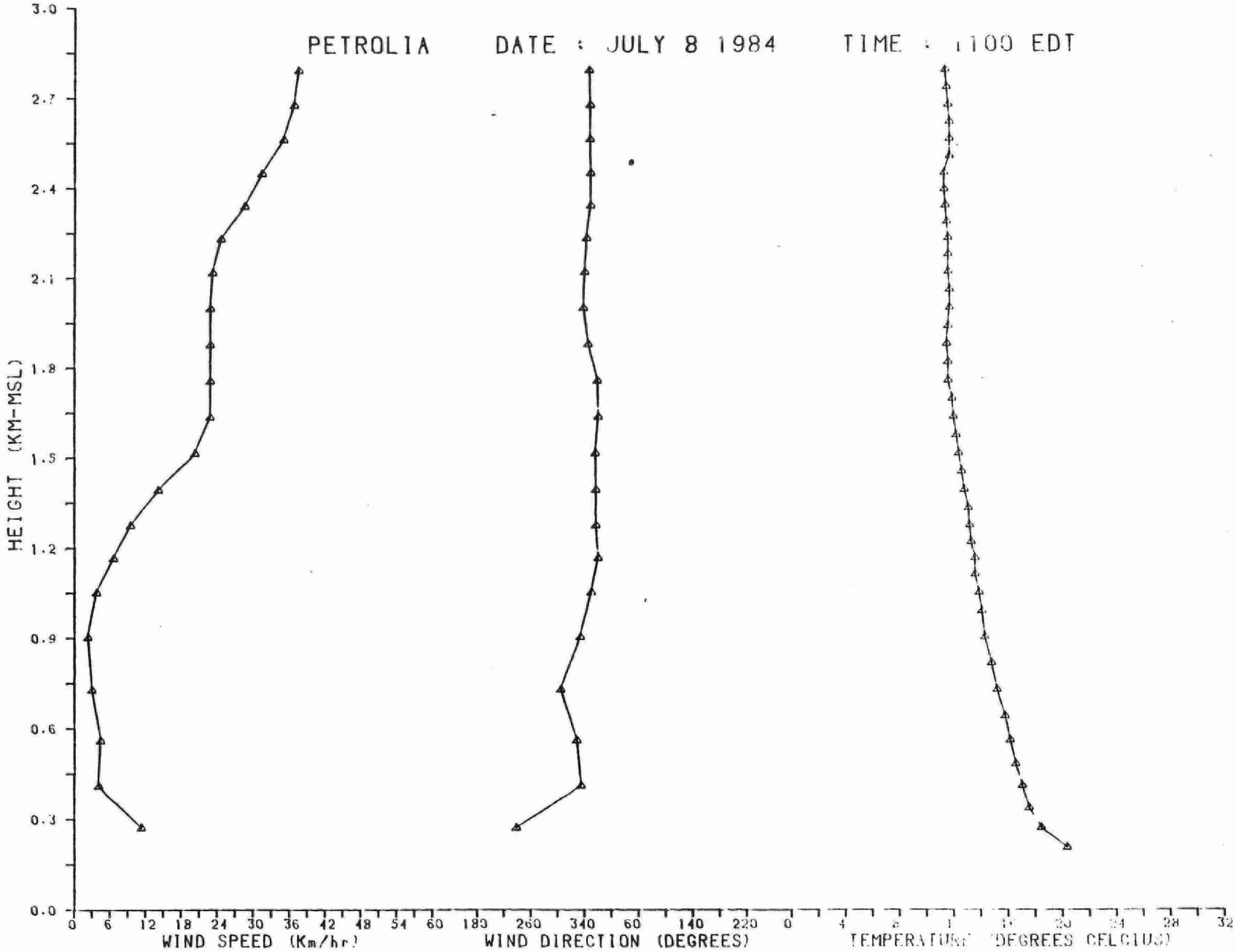

PETROLIA DATE : JULY 7 1984 TIME : 1100 EDT
HEIGHT (KM-MSL)
3.0
2.7
2.4
2.1
1.8
1.5
1.2
0.9
0.6
0.3
0.0
WIND SPEED (Km/hr)
WIND DIRECTION (DEGREES)
TEMPERATURE (DEGREES CELCIUS)

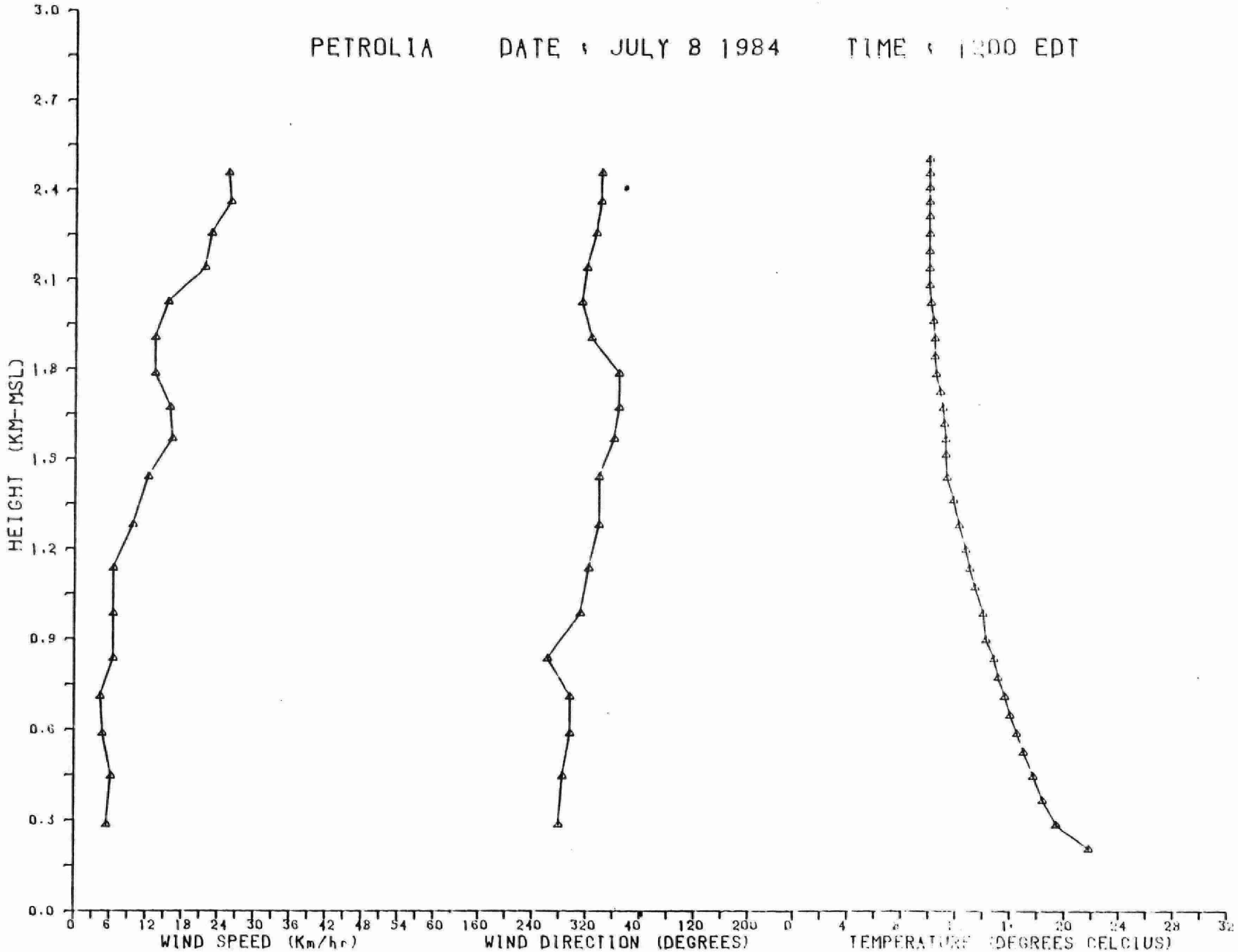

PETROLIA DATE : JULY 7 1984 TIME : 1300 EDT
HEIGHT (KM-MSL)
3.0
2.7
2.4
2.1
1.8
1.5
1.2
0.9
0.6
0.3
0.0
0 6 12 18 24 30 36 42 48 54 60
WIND SPEED (Km/hr)
140 220 300 20 100 180 0
WIND DIRECTION (DEGREES)
4 8 12 16 20 24 28 32
TEMPERATURE (DEGREES CELCIUS)

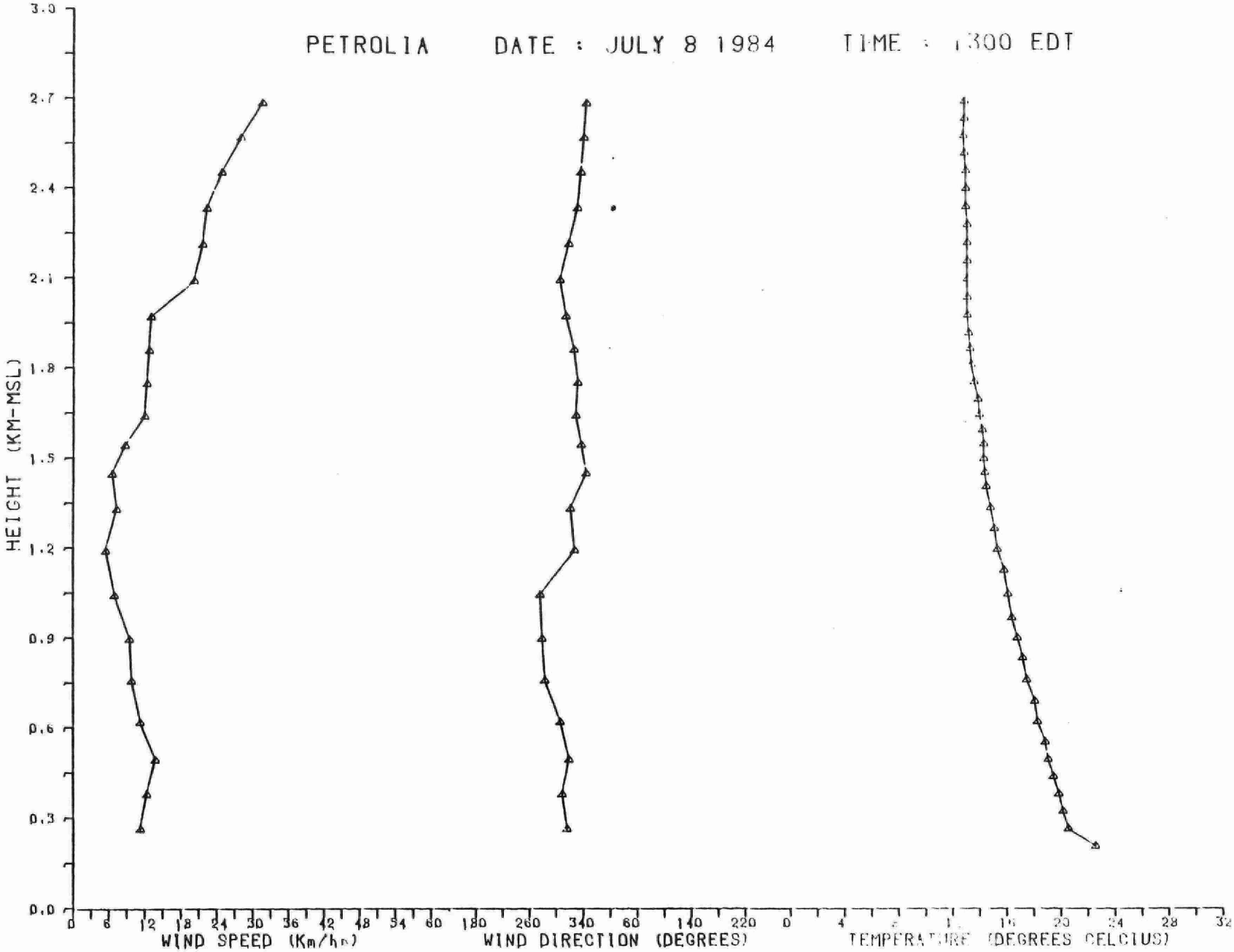

PETROLIA DATE : JULY 7 1984 TIME : 1300 EDT
HEIGHT (KM-MSL)
3.0
2.7
2.4
2.1
1.8
1.5
1.2
0.9
0.6
0.3
0.0
0 6 12 18 24 30 36 42 48 54 60 140 220 300 20 100 180 0 4 8 12 16 20 24 28 32
WIND SPEED (Km/hr)
WIND DIRECTION (DEGREES)
TEMPERATURE (DEGREES CELCIUS)

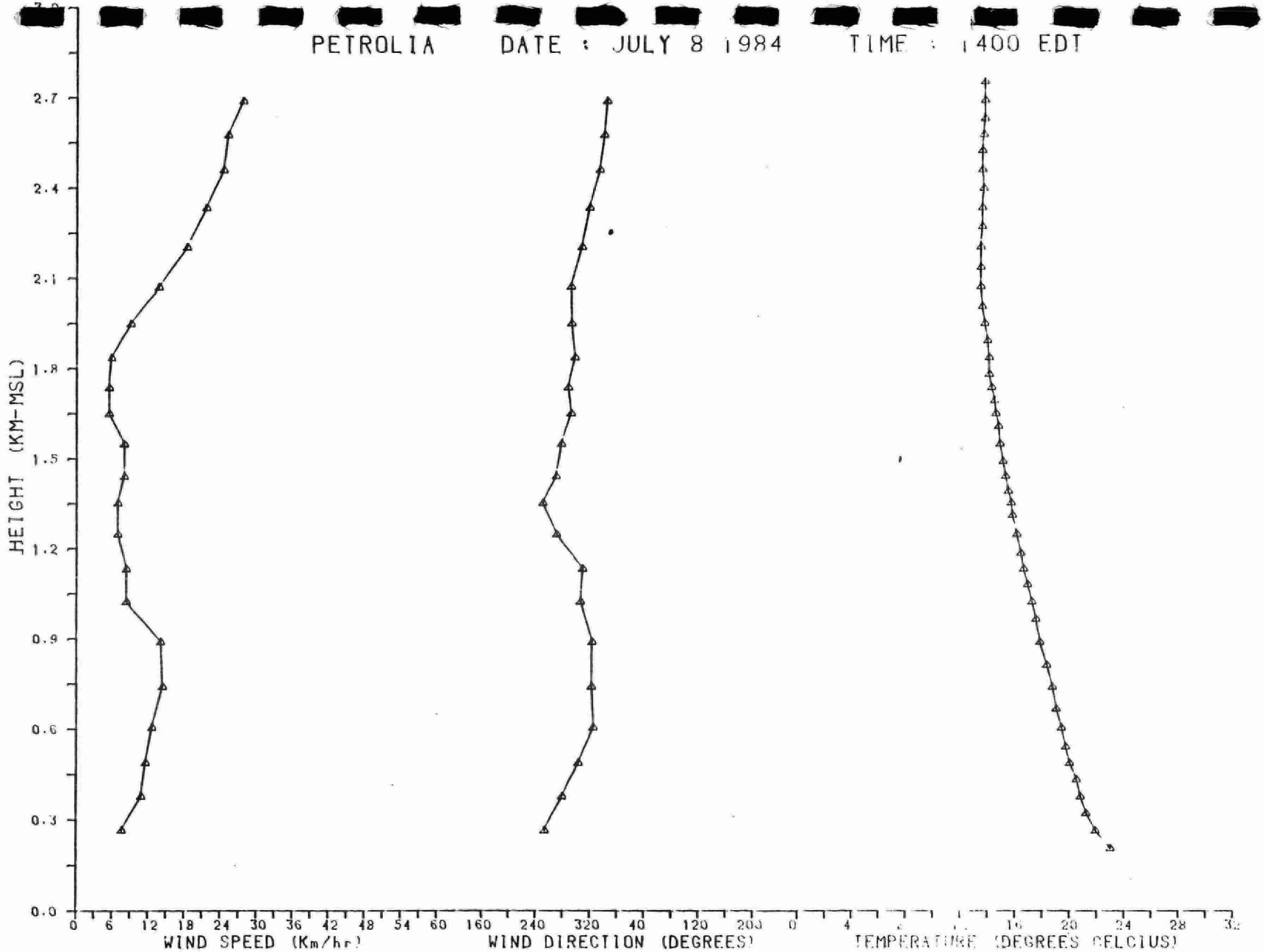

PETROLIA DATE : JULY 8 1984 TIME : 0900 EDT
HEIGHT (KM-MSL)
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2.1
1.8
1.5
1.2
0.9
0.6
0.3
0.0
0 6 12 18 24 30 36 42 48 54 60
WIND SPEED (Km/hr)
160 240 320 40 120 200 0
WIND DIRECTION (DEGREES)
4 8 12 16 20 24 28 32
TEMPERATURE DEGREES CELCIUS)

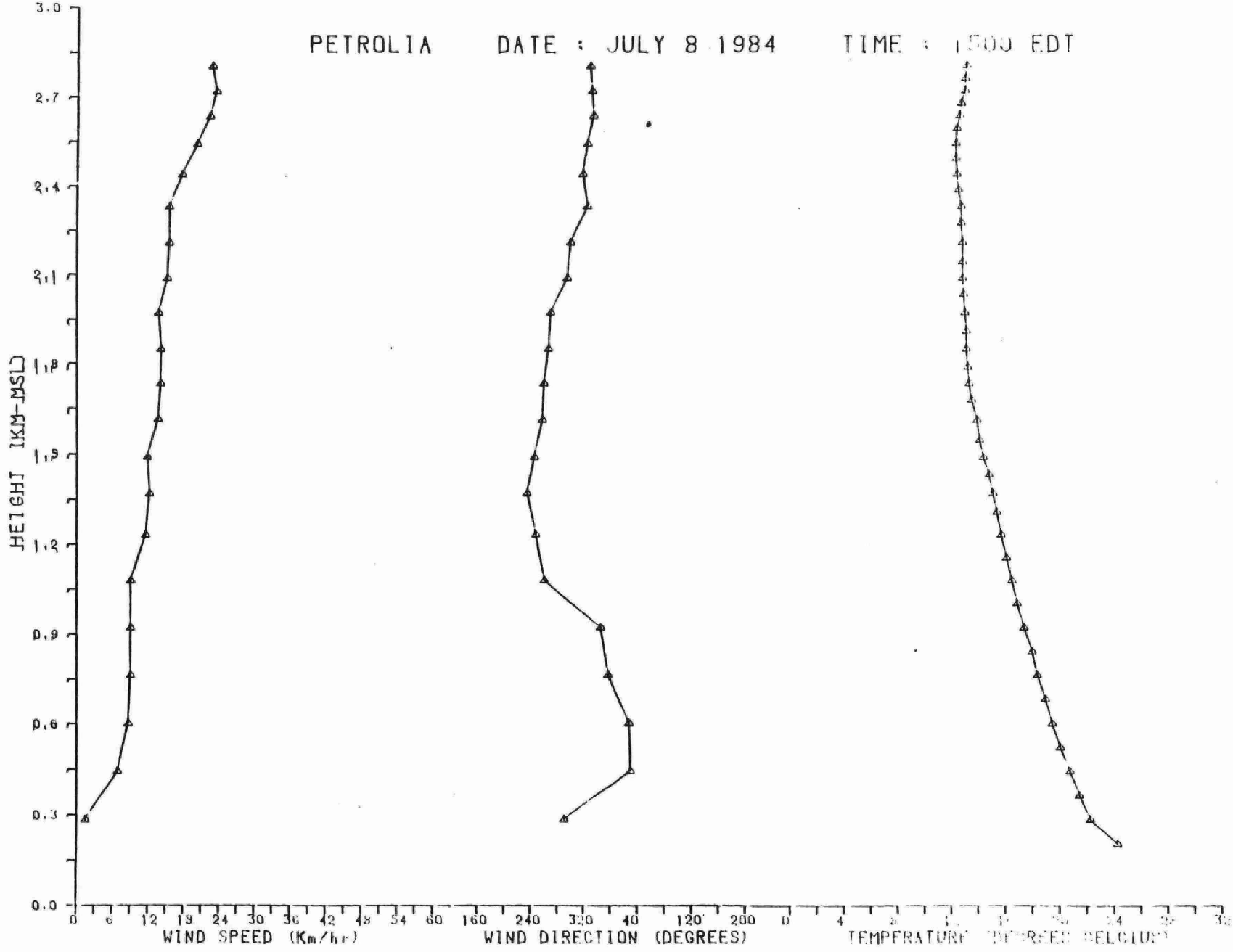

PETROLIA DATE : JULY 8 1984 TIME : 1000 EDT
HEIGHT (KM-MSL)
3.0
2.7
2.4
2.1
1.8
1.5
1.2
0.9
0.6
0.3
0.0
0 6 12 18 24 30 36 42 48 54 60
WIND SPEED (Km/hr)
160 240 320 40 120 200 0
WIND DIRECTION (DEGREES)
4 8 12 16 20 24 28 32
TEMPERATURE (DEGREES CELCIUS)

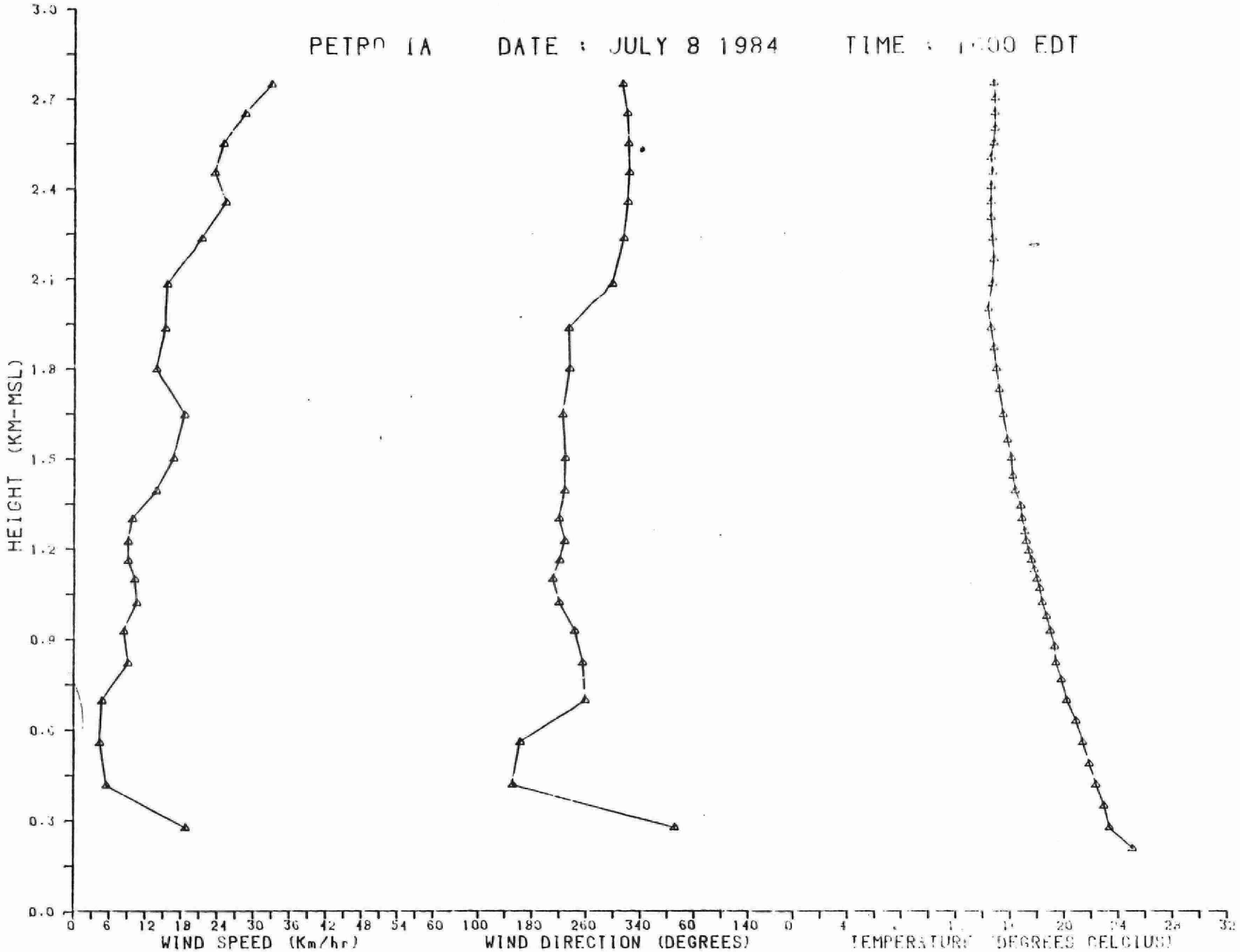

PETROLIA DATE : JULY 8 1984 TIME : 1100 EDT
HEIGHT (KM-MSL)
3.0
2.7
2.4
2.1
1.8
1.5
1.2
0.9
0.6
0.3
0.0
0 6 12 18 24 30 36 42 48 54 60
WIND SPEED (Km/hr)
180 260 340 60 140 220 0
WIND DIRECTION (DEGREES)
4 8 12 16 20 24 28 32
TEMPERATURE (DEGREES CELCIUS)

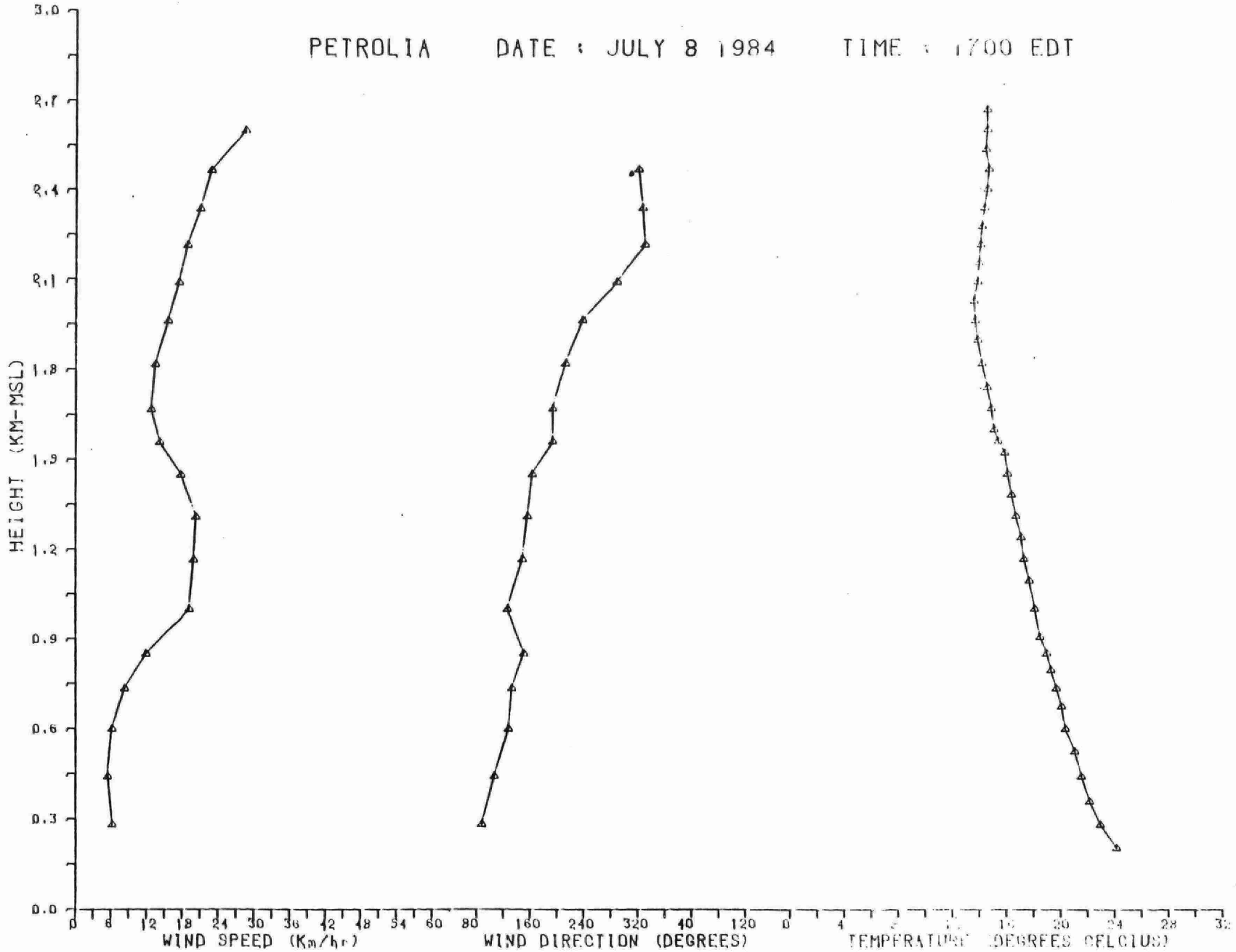

PETROLIA DATE : JULY 8 1984 TIME : 1200 EDT
HEIGHT (KM-MSL)
3.0
2.7
2.4
2.1
1.8
1.5
1.2
0.9
0.6
0.3
0.0
0 6 12 18 24 30 36 42 48 54 60
WIND SPEED (Km/hr)
160 240 320 40 120 200 0
WIND DIRECTION (DEGREES)
4 8 12 16 20 24 28 32
TEMPERATURE (DEGREES CELCIUS)

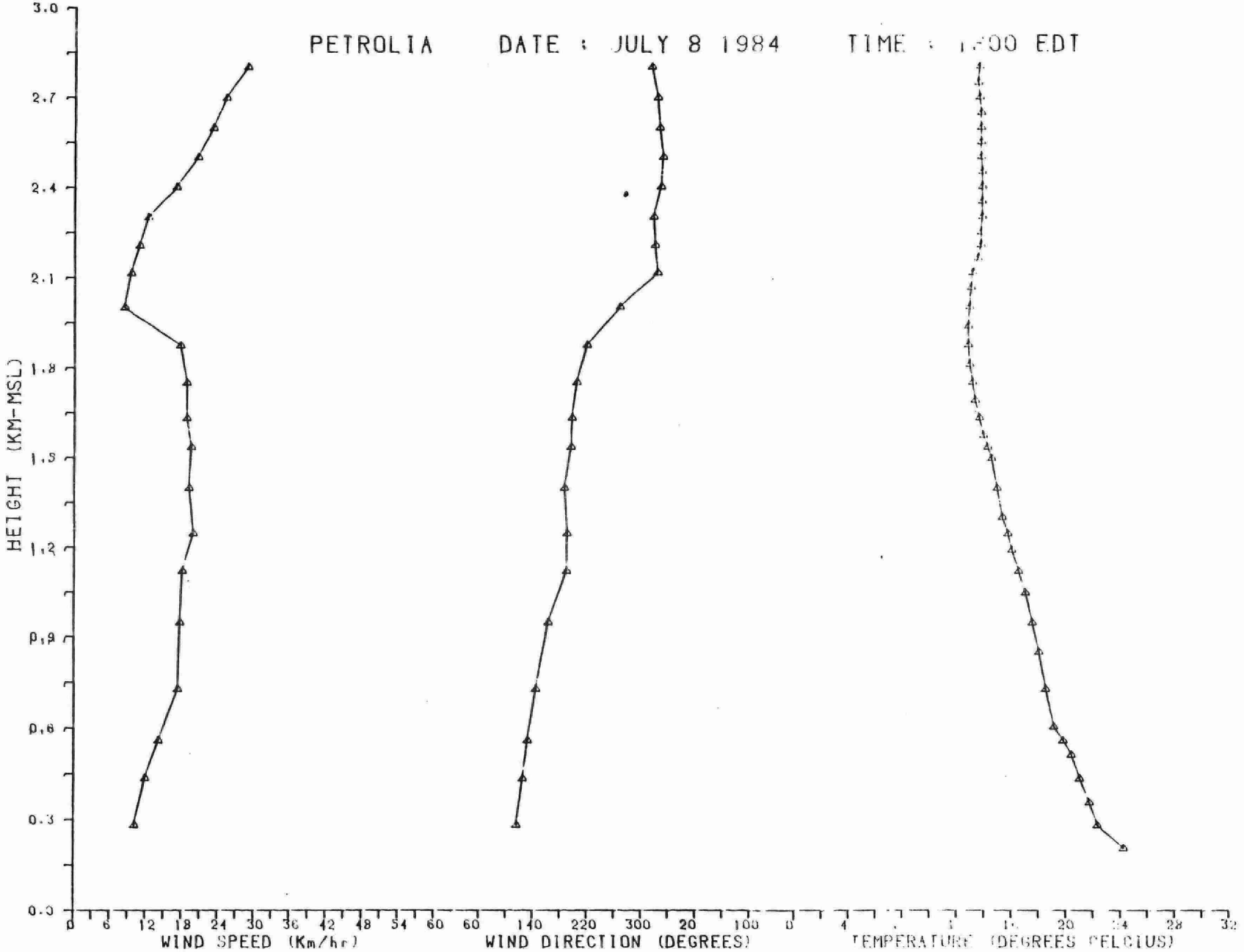

PETROLIA DATE : JULY 8 1984 TIME : 1300 EDT
HEIGHT (KM-MSL)
3.0
2.7
2.4
2.1
1.8
1.5
1.2
0.9
0.6
0.3
0.0
0 6 12 18 24 30 36 42 48 54 60
WIND SPEED (Km/hr)
180 260 340 60 140 220 0
WIND DIRECTION (DEGREES)
4 8 12 16 20 24 28 32
TEMPERATURE (DEGREES CELCIUS)

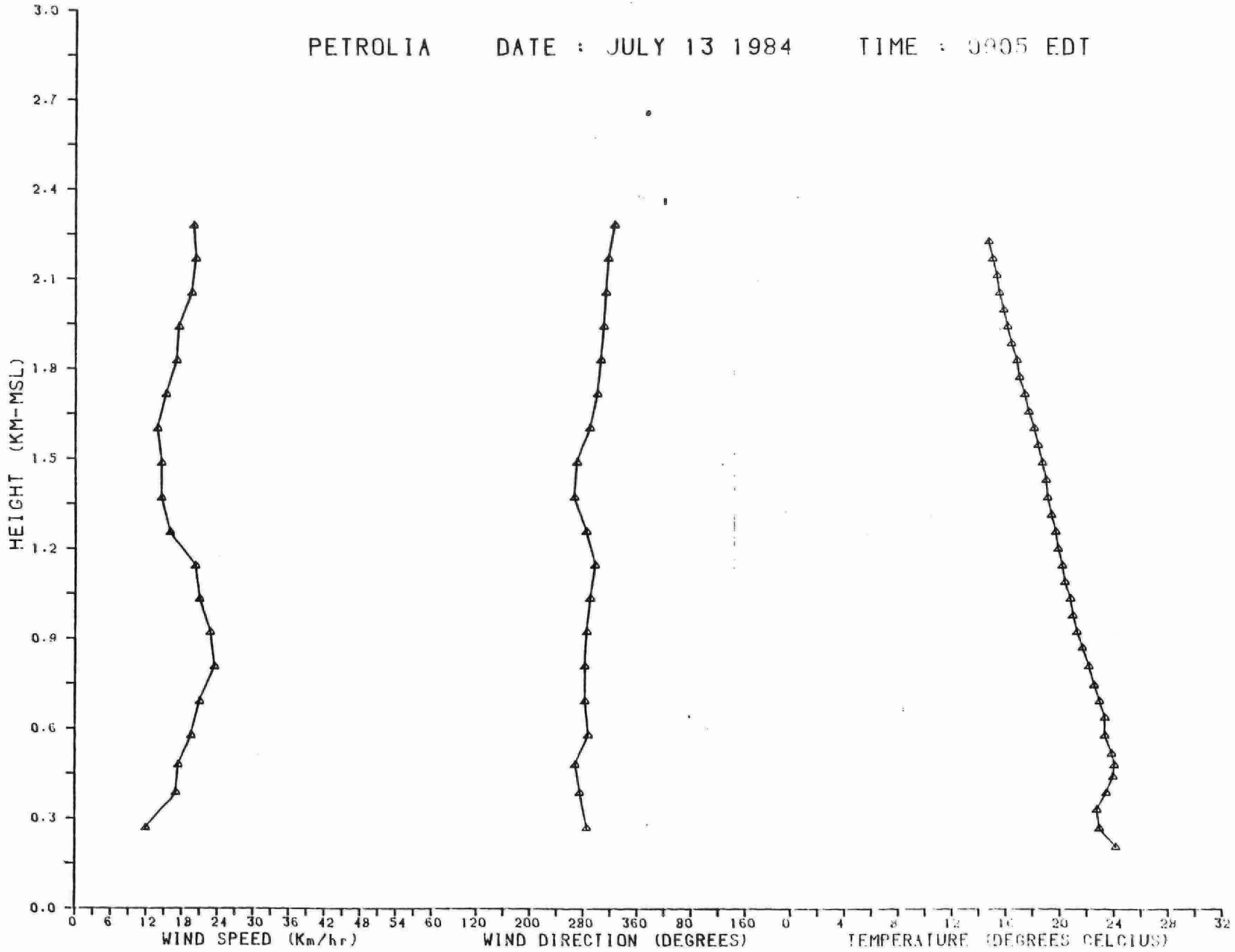

PETROLIA DATE : JULY 8 1984 TIME : 1400 EDT
HEIGHT (KM-MSL)
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2.1
1.8
1.5
1.2
0.9
0.6
0.3
0.0
0 6 12 18 24 30 36 42 48 54 60
WIND SPEED (Km/hr)
160 240 320 40 120 200
WIND DIRECTION (DEGREES)
0 4 8 12 16 20 24 28 32
TEMPERATURE (DEGREES CELCIUS)

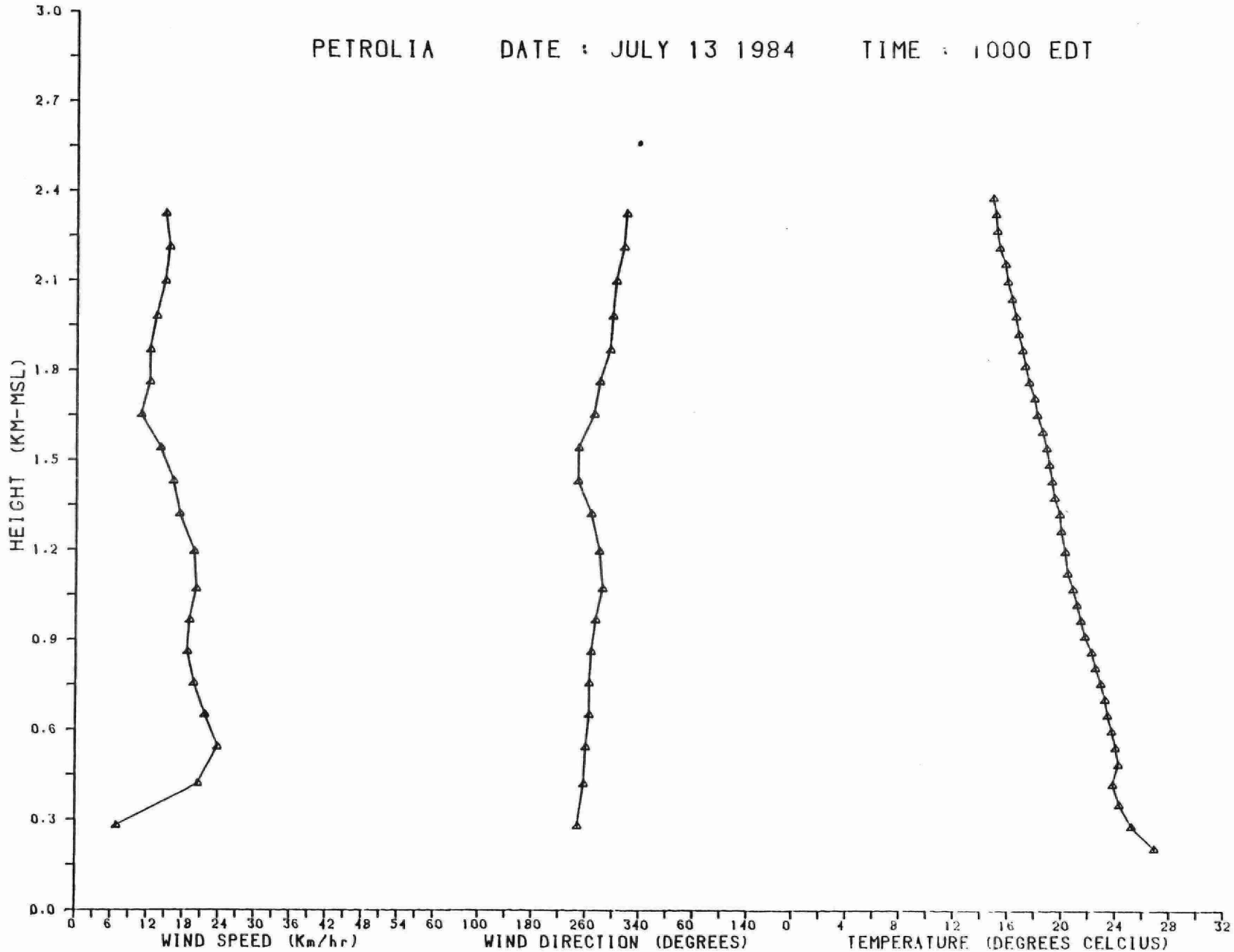

PETROLIA DATE : JULY 8 1984 TIME : 1500 EDT
HEIGHT (KM-MSL)
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2.4
2.1
1.8
1.5
1.2
0.9
0.6
0.3
0.0
0 6 12 18 24 30 36 42 48 54 60
WIND SPEED (Km/hr)
160 240 320 40 120 200 0
WIND DIRECTION (DEGREES)
4 8 12 16 20 24 28 32
TEMPERATURE (DEGREES CELCIUS)

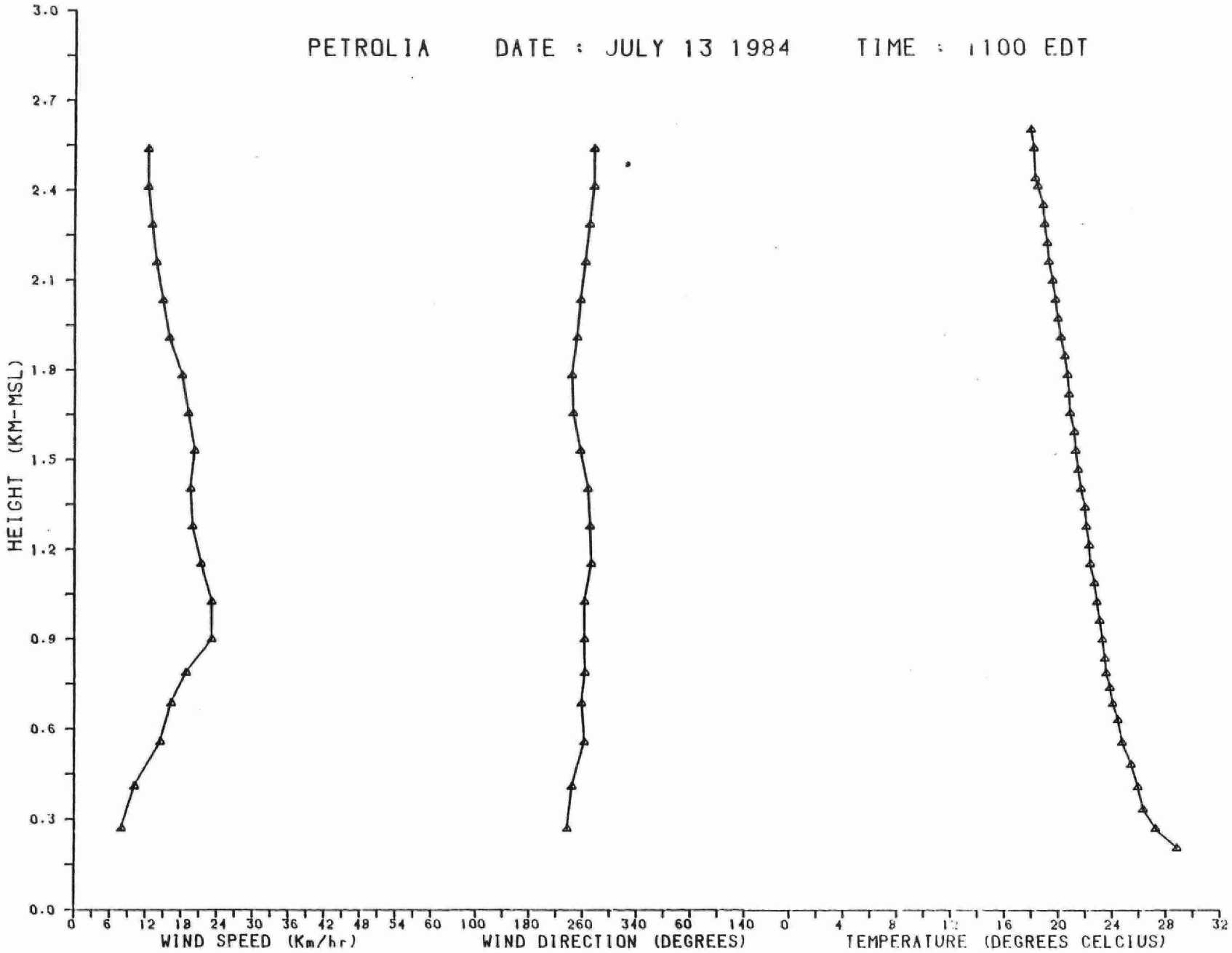

PETRO IA DATE : JULY 8 1984 TIME : 1700 EDT
HEIGHT (KM-MSL)
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2.4
2.1
1.8
1.5
1.2
0.9
0.6
0.3
0.0
0 6 12 18 24 30 36 42 48 54 60
WIND SPEED (Km/hr)
100 180 260 340 60 140 0
WIND DIRECTION (DEGREES)
4 8 12 16 20 24 28 32
TEMPERATURE DEGREES CELCIUS

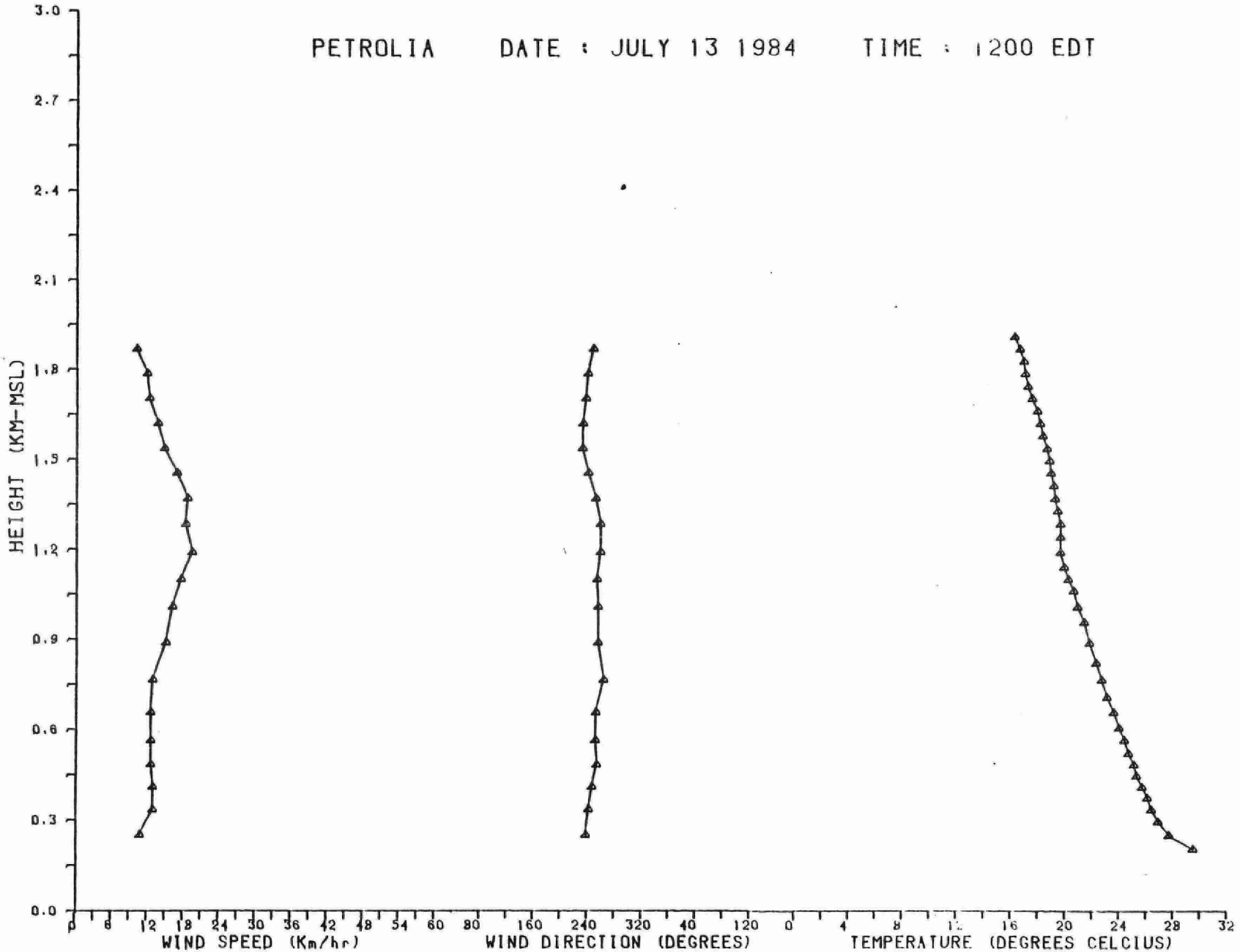

PETROLIA DATE : JULY 8 1984 TIME : 1700 EDT
HEIGHT (KM-MSL)
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2.4
2.1
1.8
1.5
1.2
0.9
0.6
0.3
0.0
0 6 12 18 24 30 36 42 48 54 60
WIND SPEED (Km/hr)
80 160 240 320 40 120 0
WIND DIRECTION (DEGREES)
4 8 12 16 20 24 28 32
TEMPERATURE (DEGREES CELCIUS)

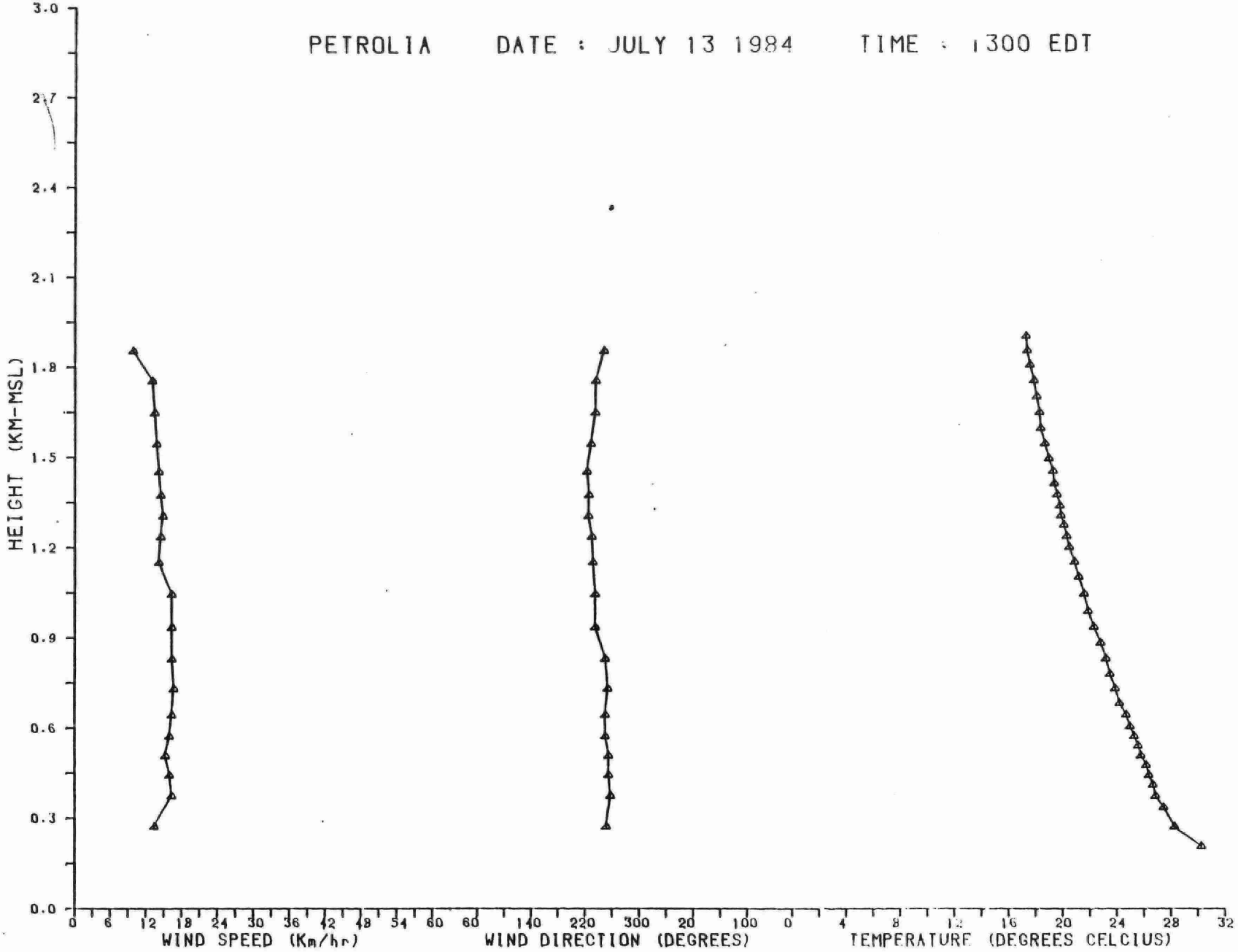

PETROLIA DATE : JULY 8 1984 TIME : 1700 EDT
HEIGHT (KM-MSL)
3.0
2.7
2.4
2.1
1.8
1.5
1.2
0.9
0.6
0.3
0.0
0 6 12 18 24 30 36 42 48 54 60
WIND SPEED (Km/hr)
60 140 220 300 20 100
WIND DIRECTION (DEGREES)
0 4 8 12 16 20 24 28 32
TEMPERATURE (DEGREES CELCIUS)

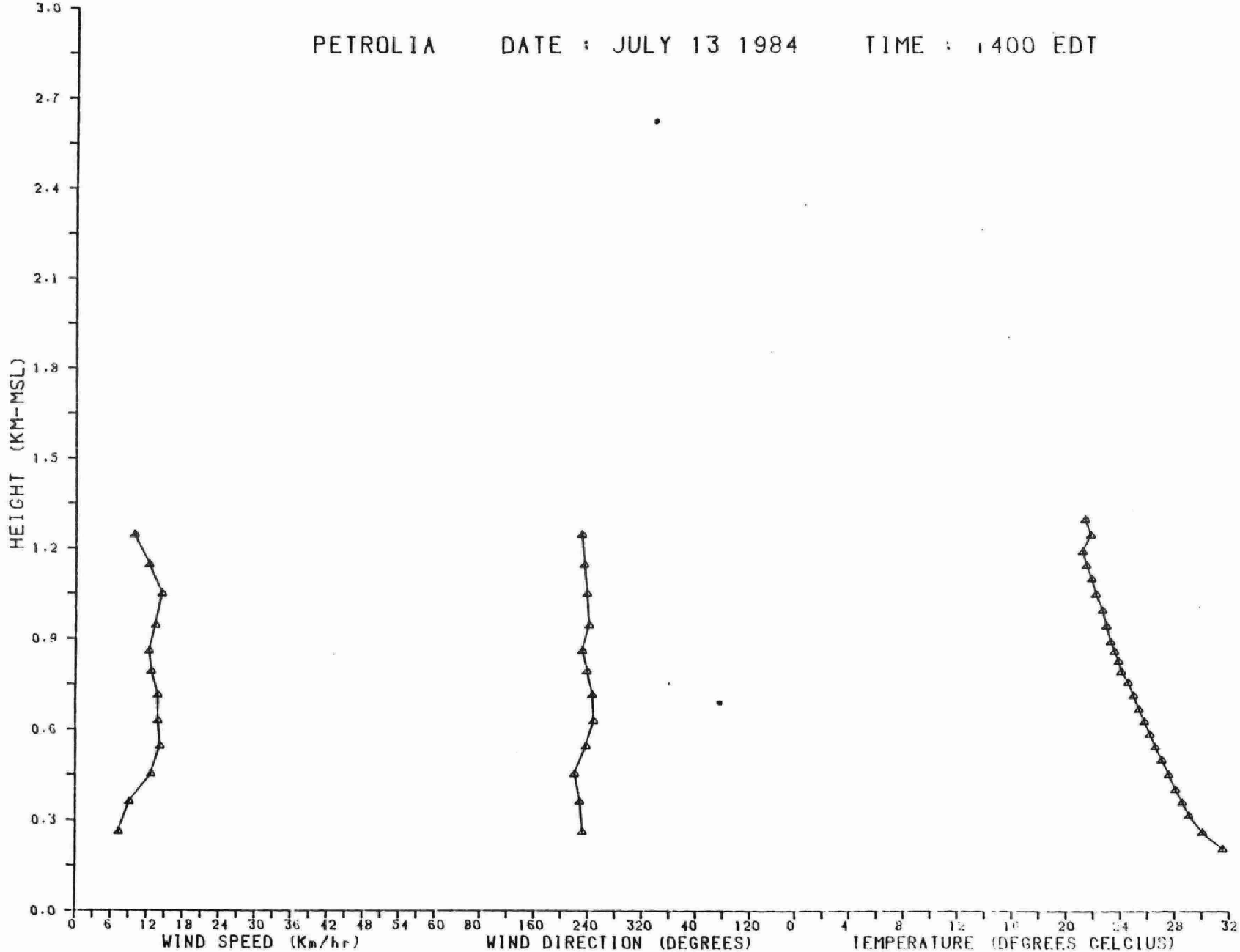

PETROLIA DATE : JULY 13 1984 TIME : 0905 EDT
HEIGHT (KM-MSL)
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2.4
2.1
1.8
1.5
1.2
0.9
0.6
0.3
0.0
0 6 12 18 24 30 36 42 48 54 60
WIND SPEED (Km/hr)
120 200 280 360 80 160 0
WIND DIRECTION (DEGREES)
4 8 12 16 20 24 28 32
TEMPERATURE (DEGREES CELCIUS)

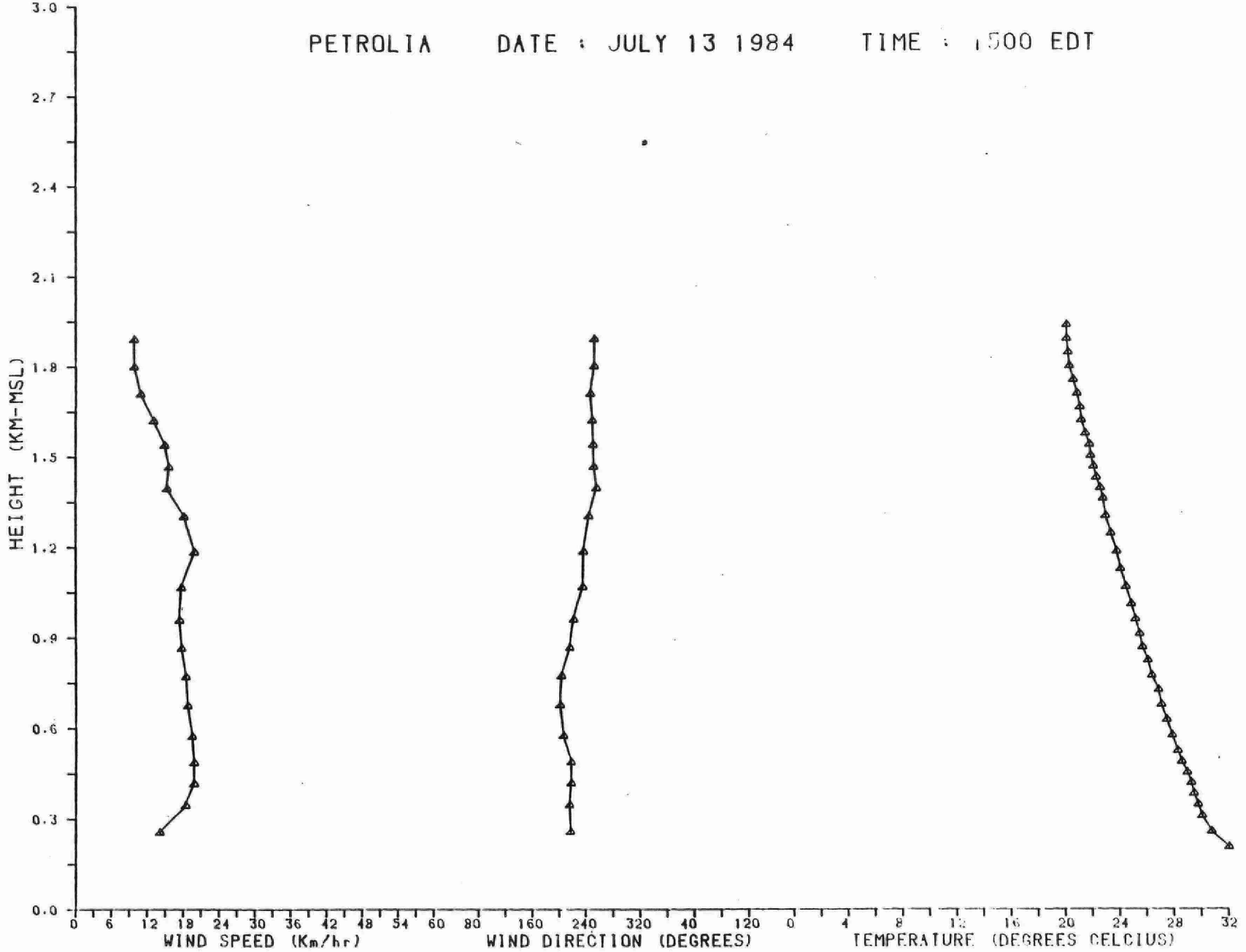

PETROLIA DATE : JULY 13 1984 TIME : 1000 EDT
HEIGHT (KM-MSL)
3.0
2.7
2.4
2.1
1.8
1.5
1.2
0.9
0.6
0.3
0.0
0 6 12 18 24 30 36 42 48 54 60
WIND SPEED (Km/hr)
100 180 260 340 60 140 0
WIND DIRECTION (DEGREES)
4 8 12 16 20 24 28 32
TEMPERATURE (DEGREES CELCIUS)

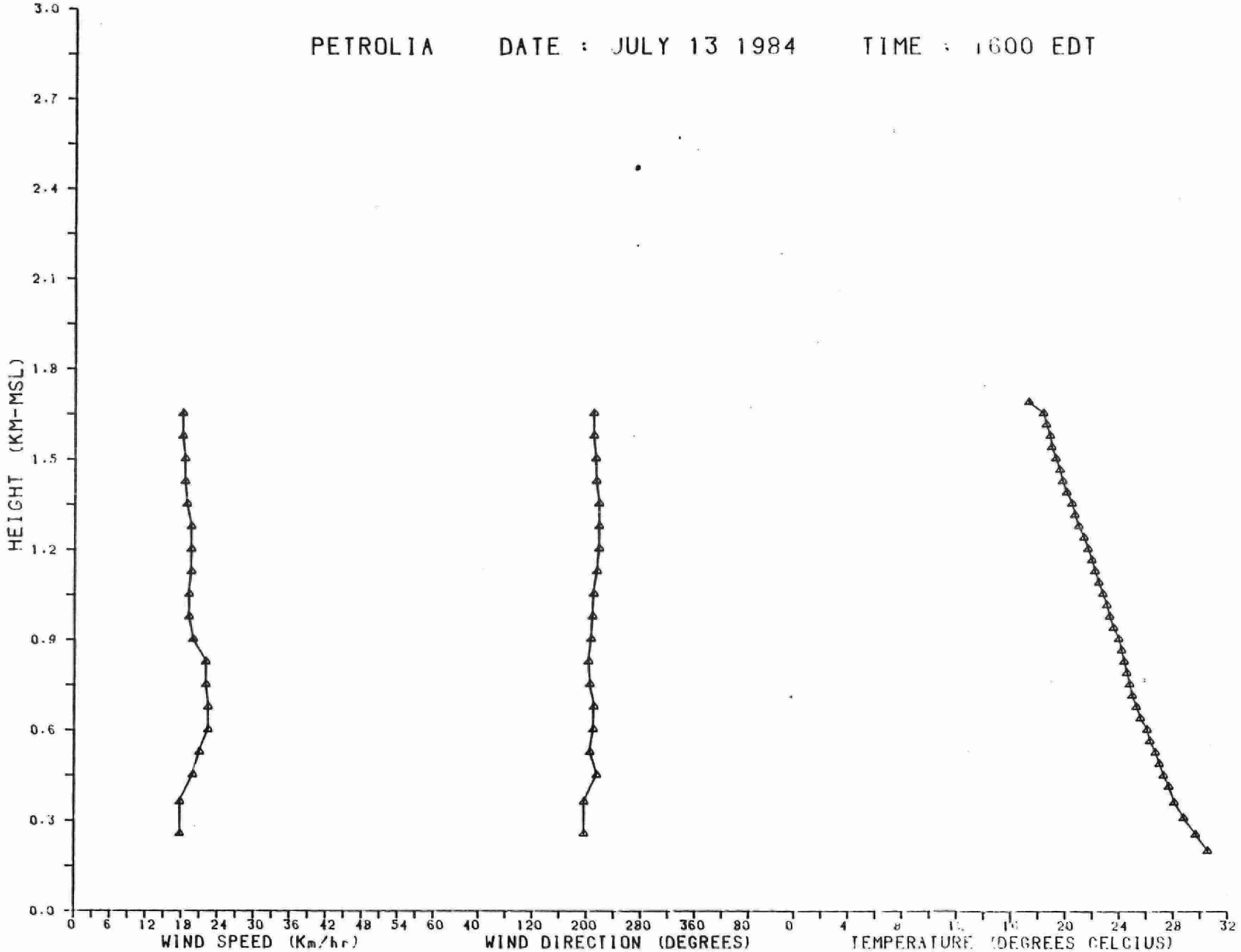

PETROLIA DATE : JULY 13 1984 TIME : 1100 EDT
HEIGHT (KM-MSL)
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2.7
2.4
2.1
1.8
1.5
1.2
0.9
0.6
0.3
0.0
0 6 12 18 24 30 36 42 48 54 60
WIND SPEED (Km/hr)
100 180 260 340 60 140 0
WIND DIRECTION (DEGREES)
4 8 12 16 20 24 28 32
TEMPERATURE (DEGREES CELCIUS)

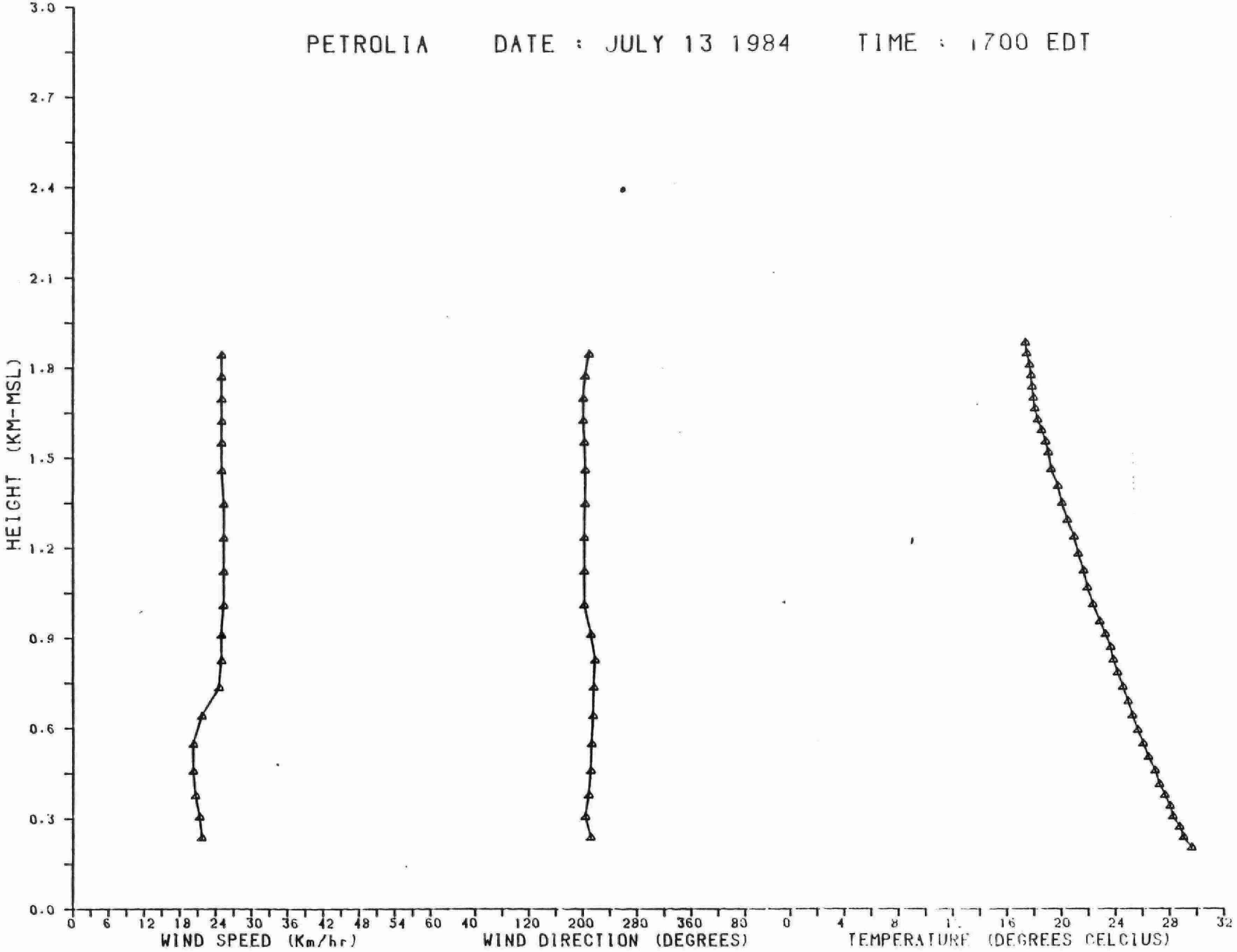

PETROLIA DATE : JULY 13 1984 TIME : 1200 EDT
HEIGHT (KM-MSL)
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2.4
2.1
1.8
1.5
1.2
0.9
0.6
0.3
0.0
0 6 12 18 24 30 36 42 48 54 60
WIND SPEED (Km/hr)
80 160 240 320 40 120 0
WIND DIRECTION (DEGREES)
4 8 12 16 20 24 28 32
TEMPERATURE (DEGREES CELCIUS)

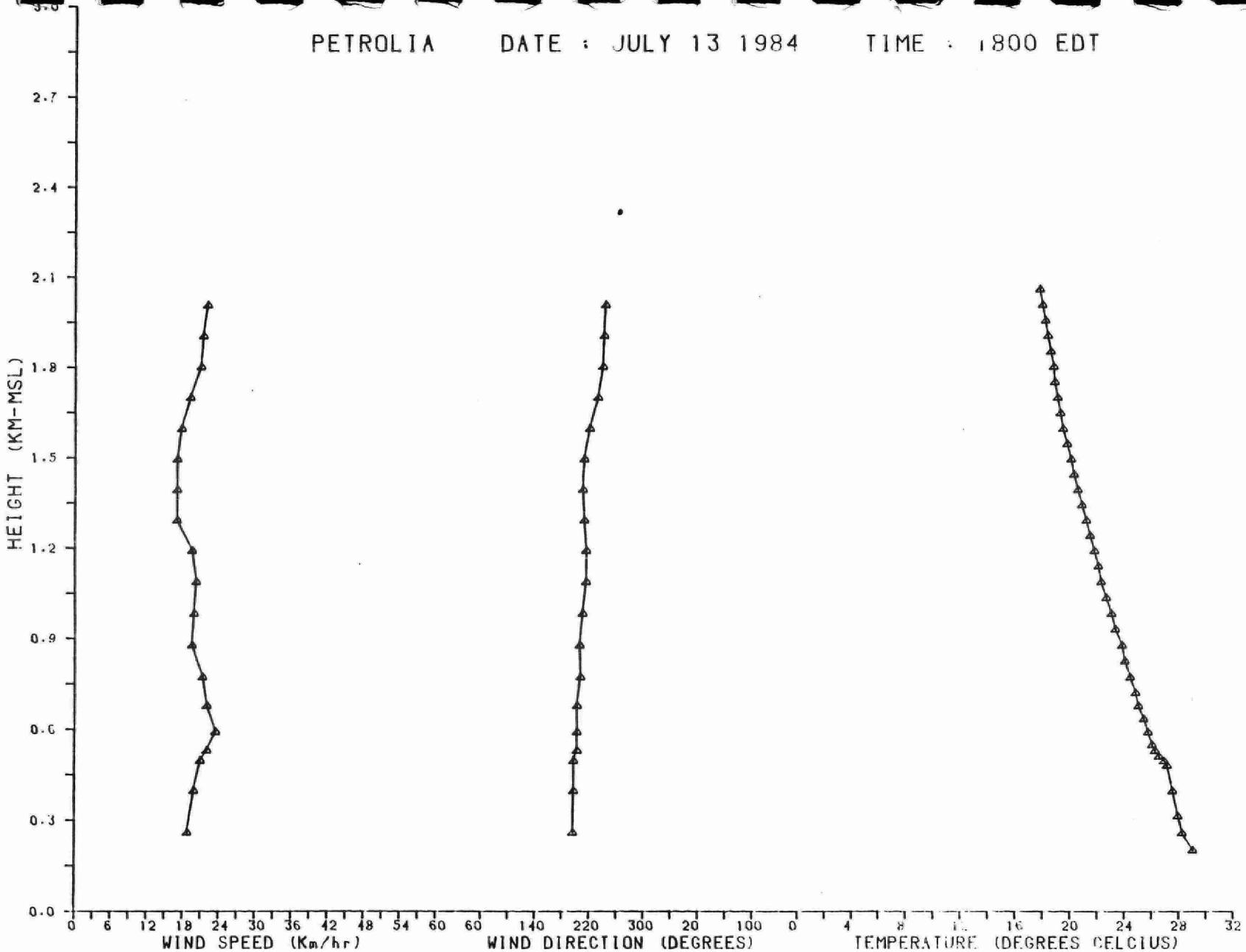

PETROLIA DATE : JULY 13 1984 TIME : 1300 EDT
HEIGHT (KM-MSL)
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2.4
2.1
1.8
1.5
1.2
0.9
0.6
0.3
0.0
0 6 12 18 24 30 36 42 48 54 60
WIND SPEED (Km/hr)
60 140 220 300 20 100 0
WIND DIRECTION (DEGREES)
4 8 12 16 20 24 28 32
TEMPERATURE (DEGREES CELCIUS)

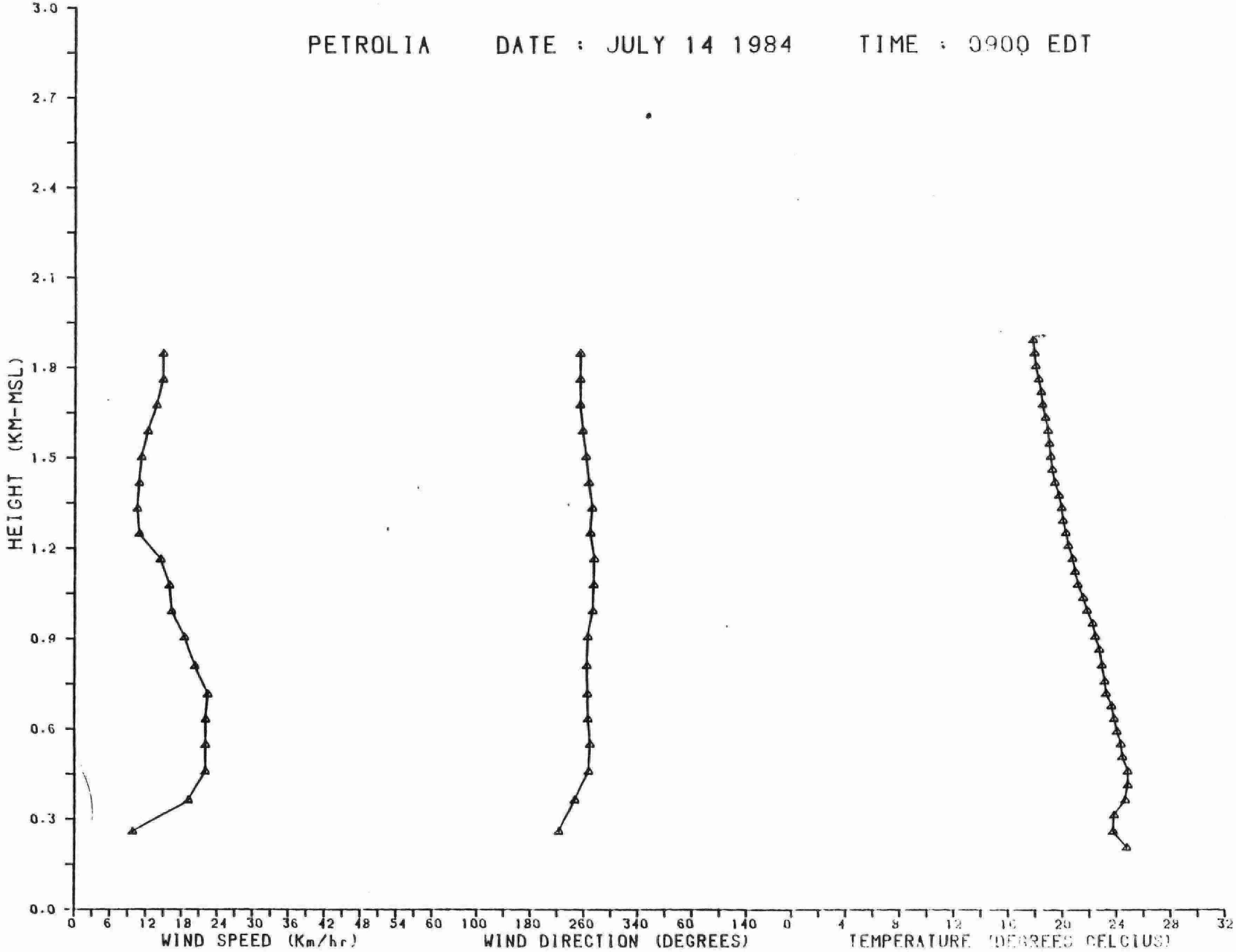

PETROLIA DATE : JULY 13 1984 TIME : 1400 EDT
HEIGHT (KM-MSL)
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2.4
2.1
1.8
1.5
1.2
0.9
0.6
0.3
0.0
0 6 12 18 24 30 36 42 48 54 60 80
WIND SPEED (Km/hr)
160 240 320 40 120 0
WIND DIRECTION (DEGREES)
4 8 12 16 20 24 28 32
TEMPERATURE (DEGREES CELCIUS)

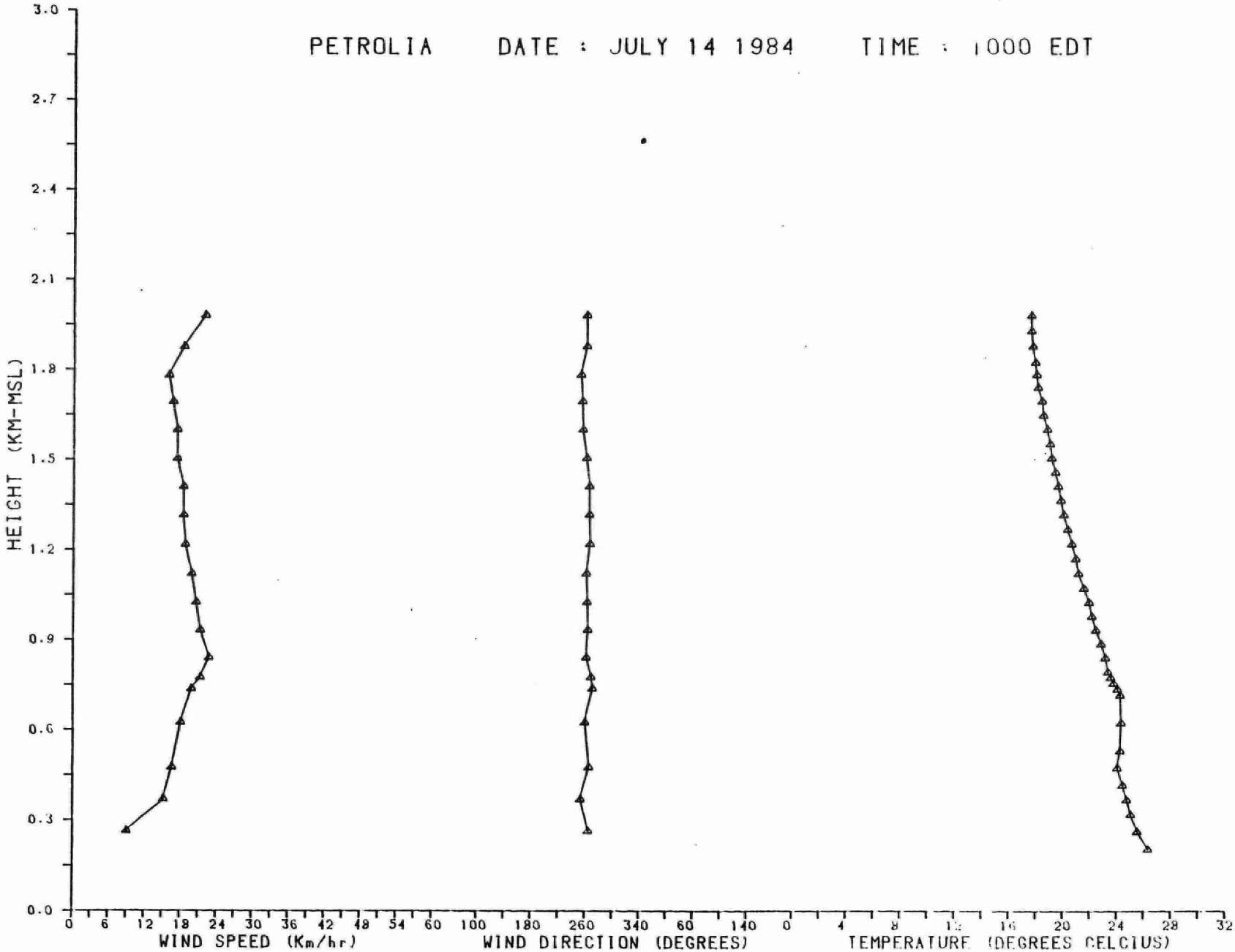

PETROLIA DATE : JULY 13 1984 TIME : 1500 EDT
HEIGHT (KM-MSL)
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2.4
2.1
1.8
1.5
1.2
0.9
0.6
0.3
0.0
0 6 12 18 24 30 36 42 48 54 60 80
WIND SPEED (Km/hr)
160 240 320 40 120 0
WIND DIRECTION (DEGREES)
4 8 12 16 20 24 28 32
TEMPERATURE (DEGREES CELCIUS)

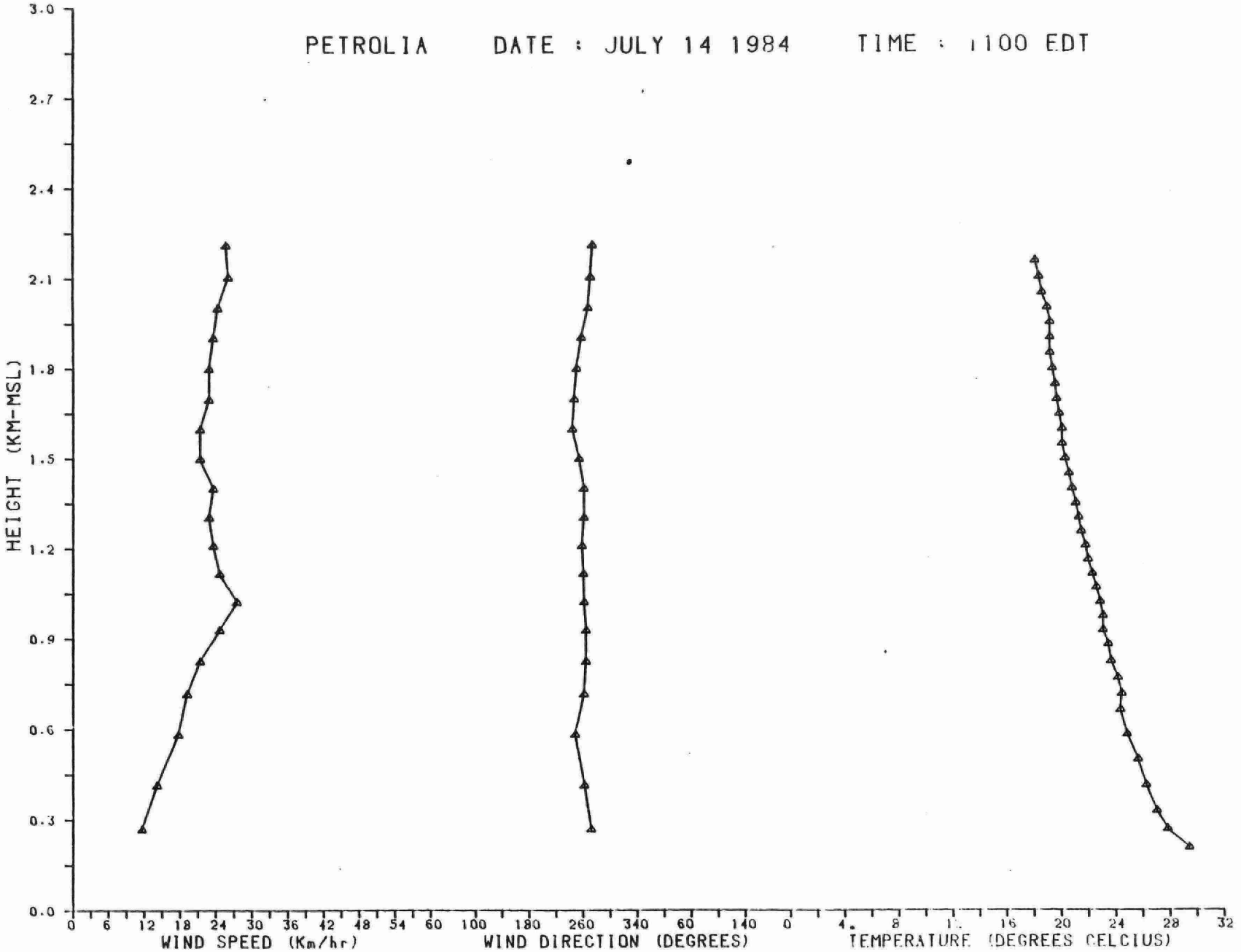

PETROLIA DATE : JULY 13 1984 TIME : 1600 EDT
HEIGHT (KM-MSL)
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2.4
2.1
1.8
1.5
1.2
0.9
0.6
0.3
0.0
0 6 12 18 24 30 36 42 48 54 60
WIND SPEED (Km/hr)
40 120 200 280 360 80
WIND DIRECTION (DEGREES)
0 4 8 12 16 20 24 28 32
TEMPERATURE (DEGREES CELCIUS)

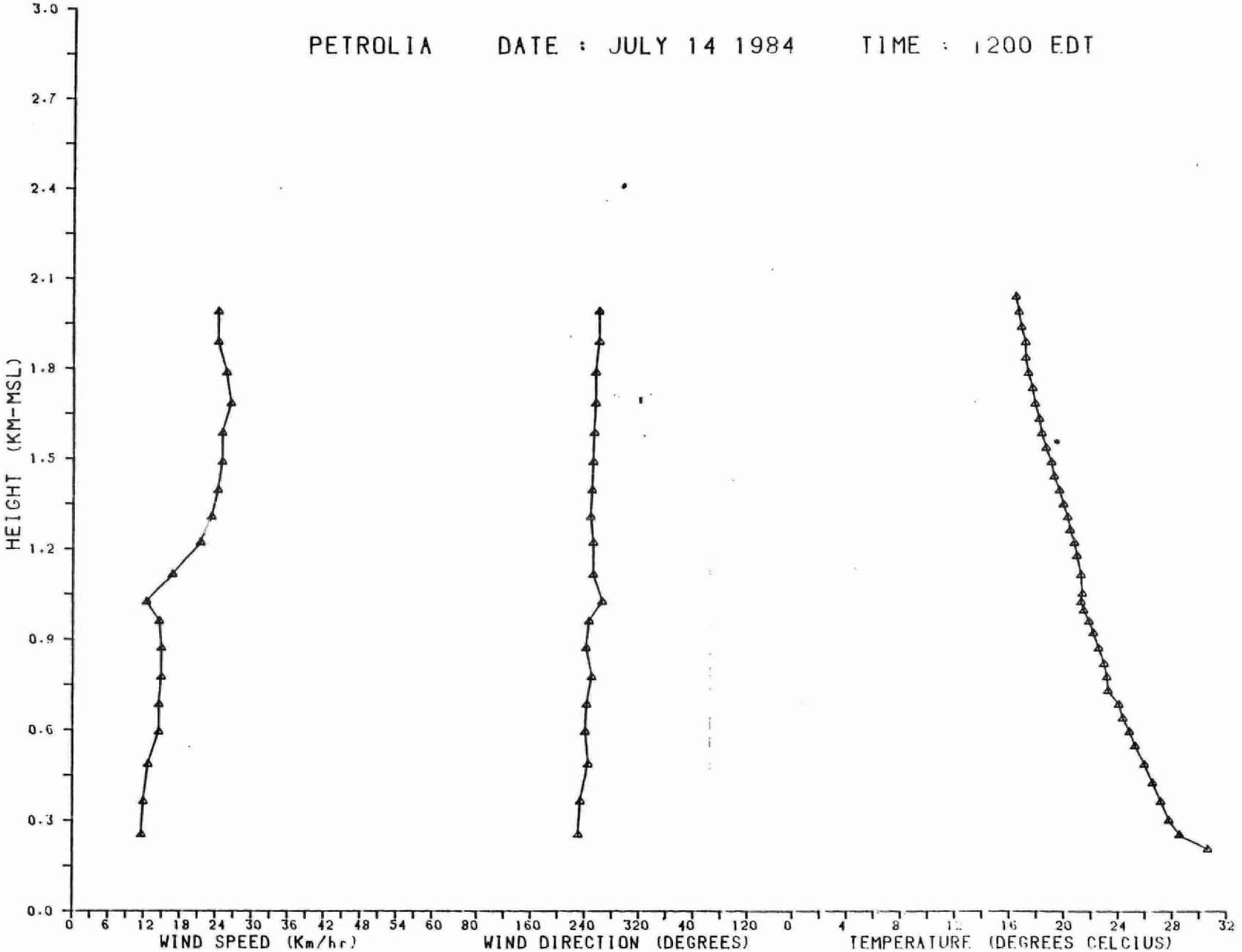

PETROLIA DATE : JULY 13 1984 TIME : 1700 EDT
HEIGHT (KM-MSL)
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2.1
1.8
1.5
1.2
0.9
0.6
0.3
0.0
0 6 12 18 24 30 36 42 48 54 60
WIND SPEED (Km/hr)
40 120 200 280 360 80
WIND DIRECTION (DEGREES)
0 4 8 12 16 20 24 28 32
TEMPERATURE (DEGREES CELCIUS)

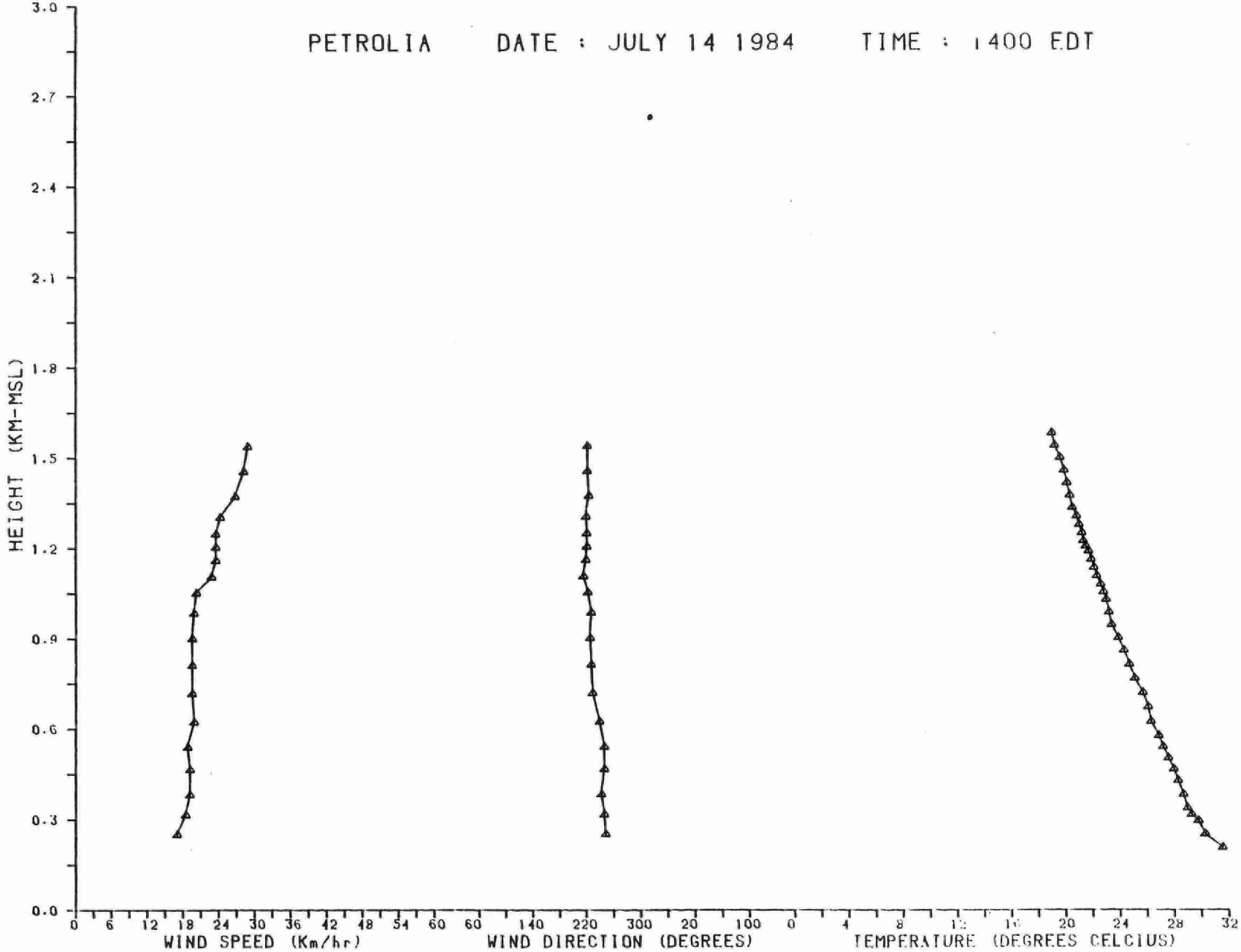

PETROLIA DATE : JULY 13 1984 TIME : 1800 EDT
HEIGHT (KM-MSL)
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2.1
1.8
1.5
1.2
0.9
0.6
0.3
0.0
0 6 12 18 24 30 36 42 48 54 60
WIND SPEED (Km/hr)
60 140 220 300 20 100 0
WIND DIRECTION (DEGREES)
4 8 12 16 20 24 28 32
TEMPERATURE (DEGREES CELCIUS)

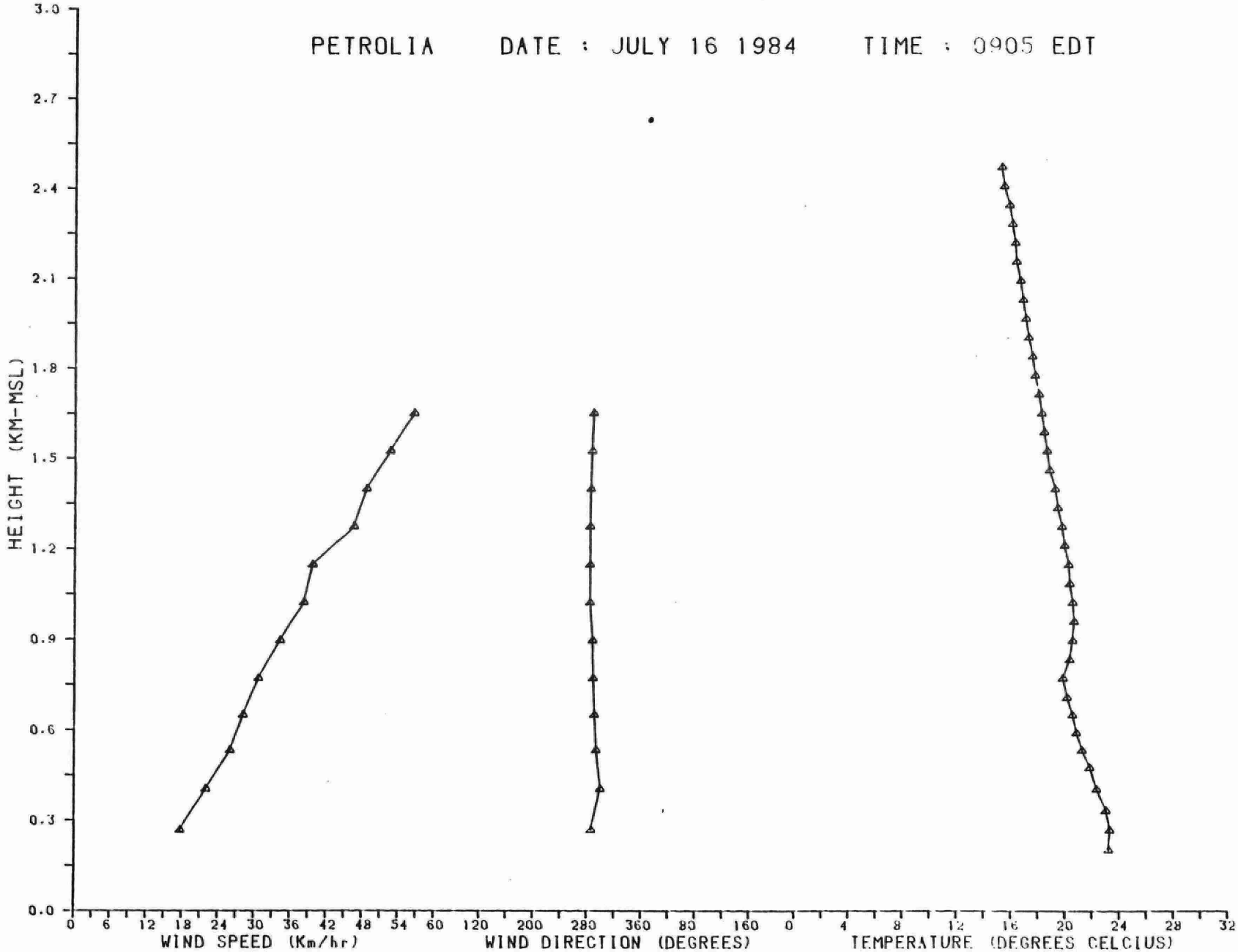

PETROLIA DATE : JULY 14 1984 TIME : 0900 EDT
HEIGHT (KM-MSL)
3.0
2.7
2.4
2.1
1.8
1.5
1.2
0.9
0.6
0.3
0.0
0 6 12 18 24 30 36 42 48 54 60
WIND SPEED (Km/hr)
100 180 260 340 60 140
WIND DIRECTION (DEGREES)
0 4 8 12 16 20 24 28 32
TEMPERATURE (DEGREES CELCIUS)

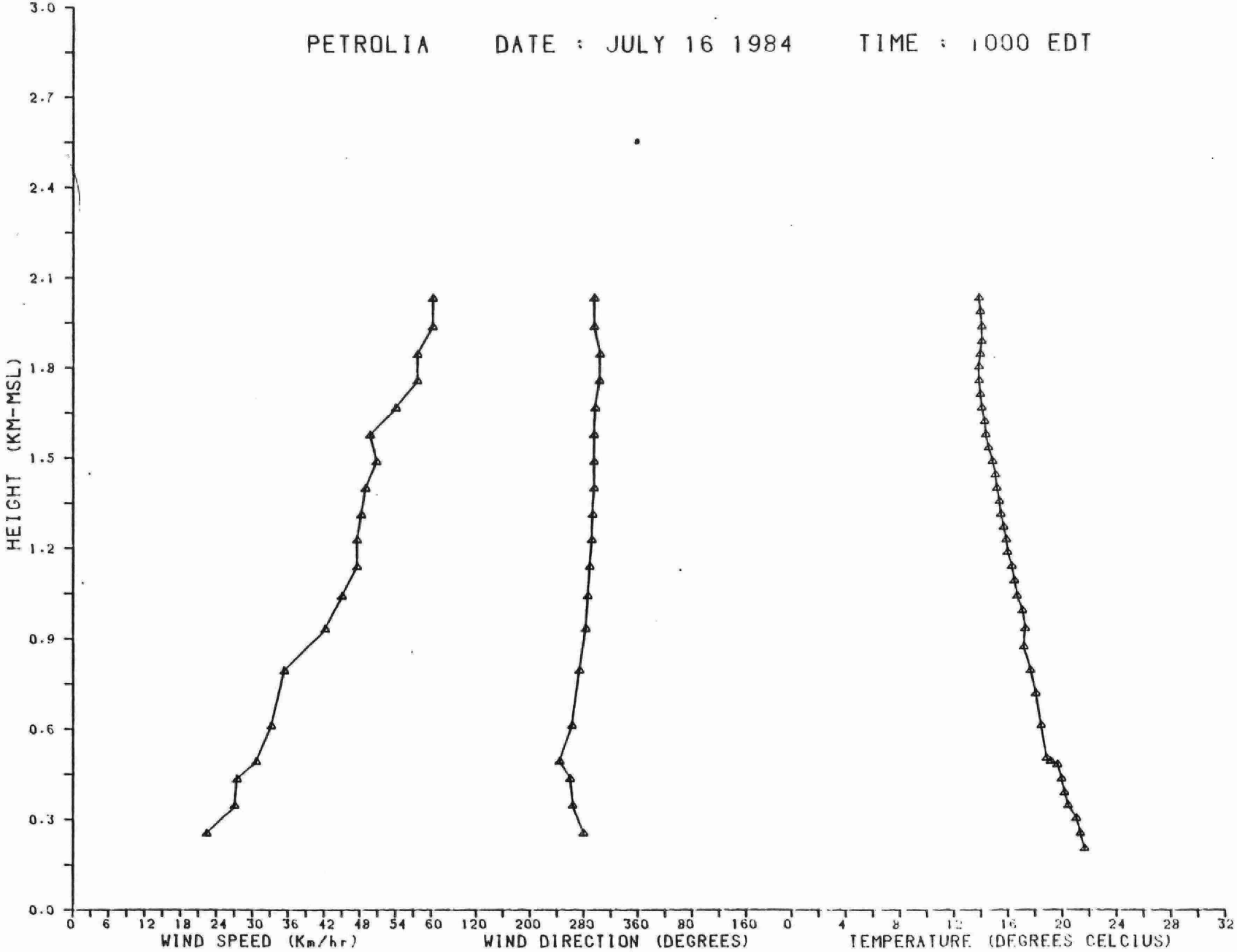

PETROLIA DATE : JULY 14 1984 TIME : 1000 EDT
HEIGHT (KM-MSL)
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2.4
2.1
1.8
1.5
1.2
0.9
0.6
0.3
0.0
0 6 12 18 24 30 36 42 48 54 60
WIND SPEED (Km/hr)
100 180 260 340 60 140 0
WIND DIRECTION (DEGREES)
4 8 12 16 20 24 28 32
TEMPERATURE (DEGREES CELCIUS)

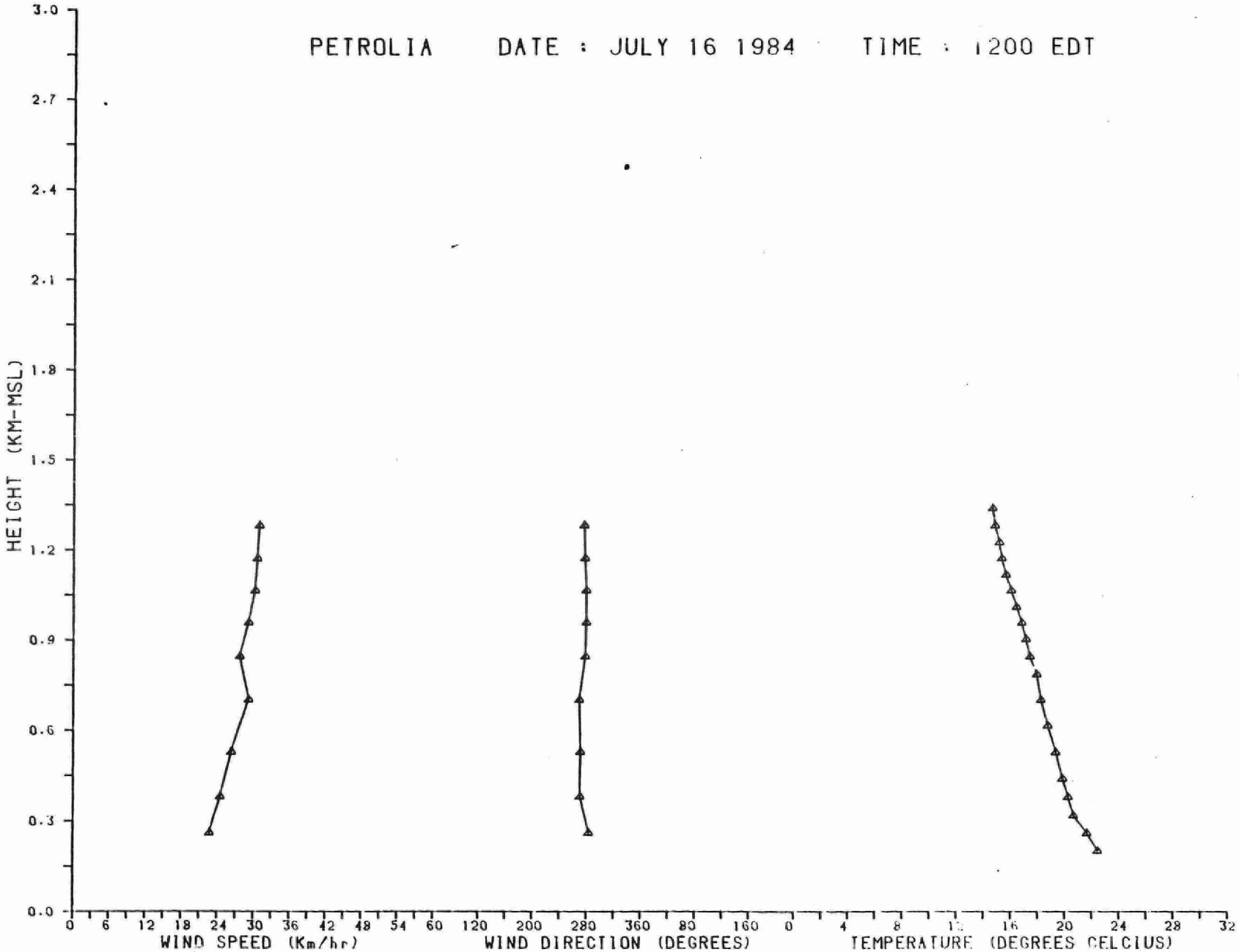

PETROLIA DATE : JULY 14 1984 TIME : 1100 EDT
HEIGHT (KM-MSL)
3.0
2.7
2.4
2.1
1.8
1.5
1.2
0.9
0.6
0.3
0.0
0 6 12 18 24 30 36 42 48 54 60
WIND SPEED (Km/hr)
100 180 260 340 60 140 0
WIND DIRECTION (DEGREES)
4. 8 1. 16 20 24 28 32
TEMPERATURE (DEGREES CELCIUS)

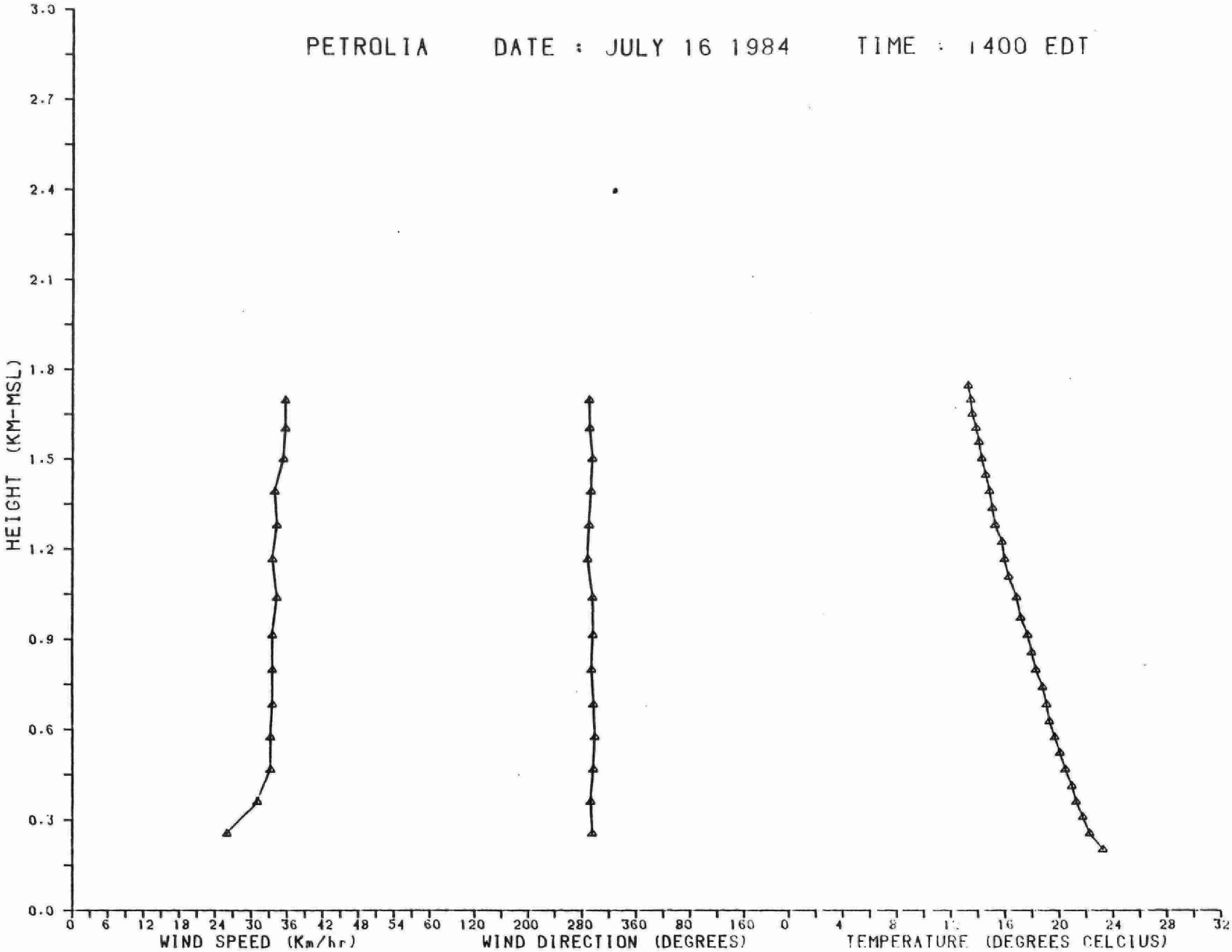

PETROLIA DATE : JULY 14 1984 TIME : 1200 EDT
HEIGHT (KM-MSL)
3.0
2.7
2.4
2.1
1.8
1.5
1.2
0.9
0.6
0.3
0.0
0 6 12 18 24 30 36 42 48 54 60 80
WIND SPEED (Km/hr)
160 240 320 40 120 0
WIND DIRECTION (DEGREES)
4 8 12 16 20 24 28 32
TEMPERATURE (DEGREES CELCIUS)

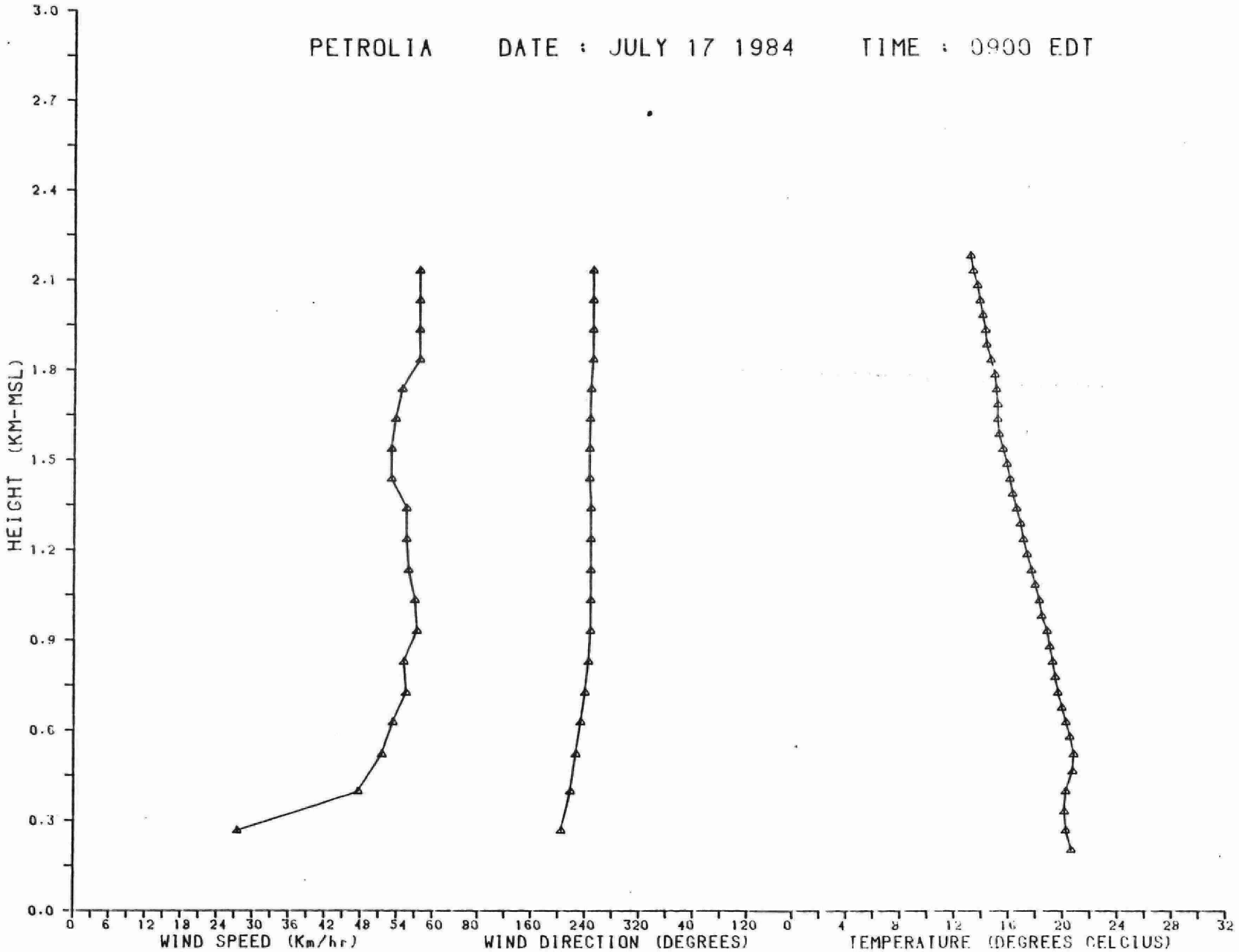

PETROLIA DATE : JULY 14 1984 TIME : 1400 EDT
HEIGHT (KM-MSL)
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2.4
2.1
1.8
1.5
1.2
0.9
0.6
0.3
0.0
0 6 12 18 24 30 36 42 48 54 60
WIND SPEED (Km/hr)
60 140 220 300 20 100 0
WIND DIRECTION (DEGREES)
4 8 12 16 20 24 28 32
TEMPERATURE (DEGREES CELCIUS)

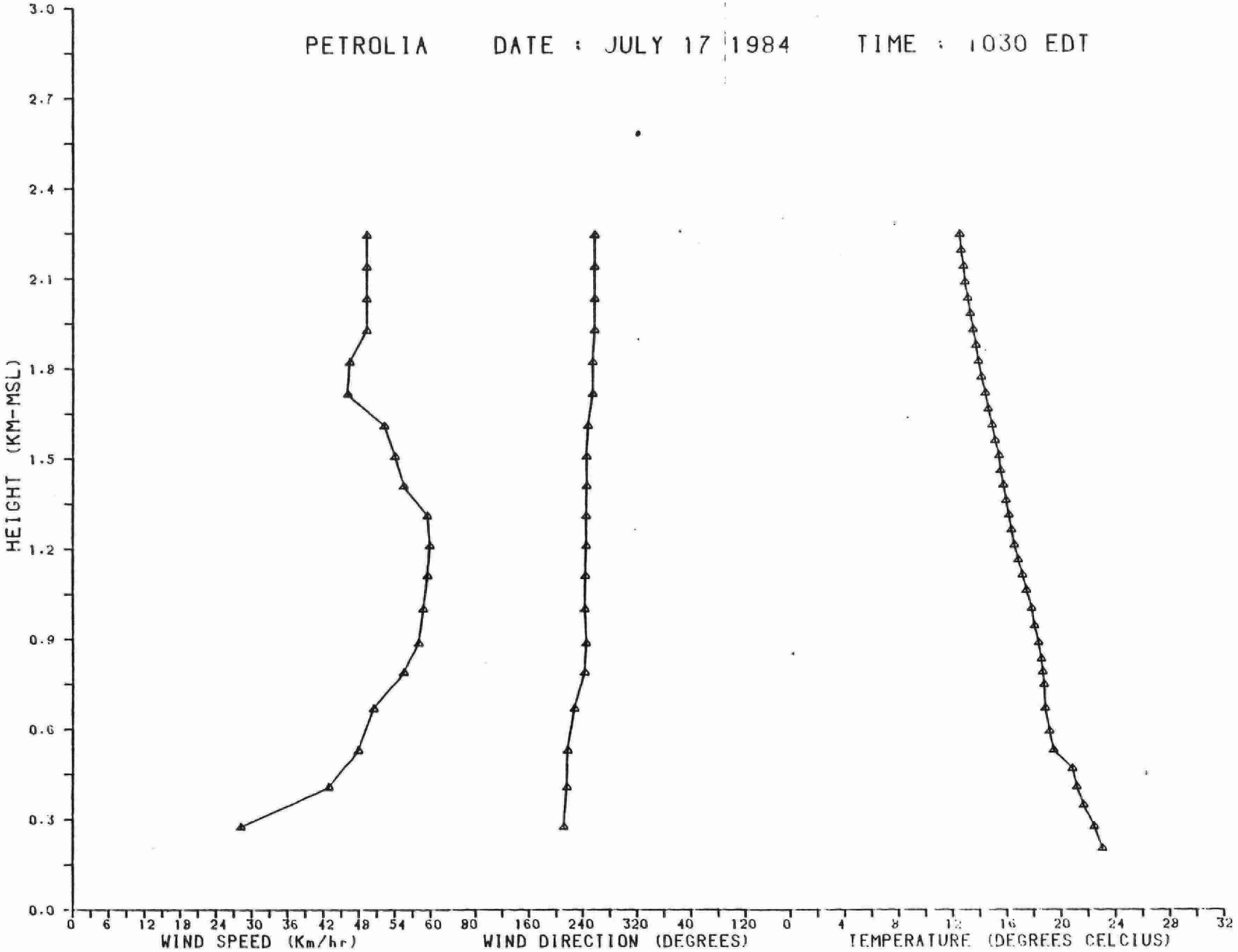

PETROLIA DATE : JULY 16 1984 TIME : 0905 EDT
HEIGHT (KM-MSL)
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2.7
2.4
2.1
1.8
1.5
1.2
0.9
0.6
0.3
0.0
0 6 12 18 24 30 36 42 48 54 60
WIND SPEED (Km/hr)
120 200 280 360 80 160 0
WIND DIRECTION (DEGREES)
4 8 12 16 20 24 28 32
TEMPERATURE (DEGREES CELCIUS)

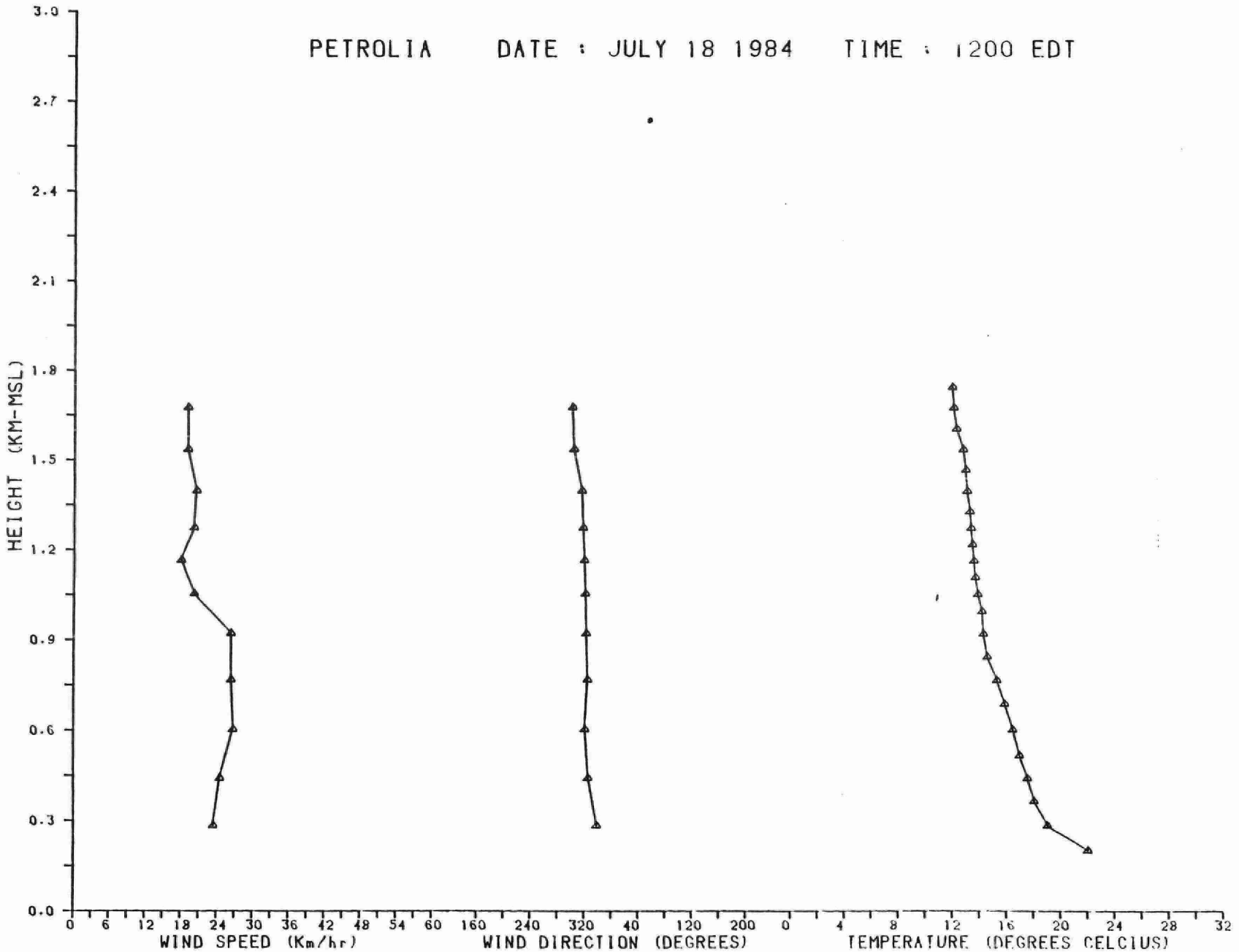

PETROLIA DATE : JULY 16 1984 TIME : 1000 EDT
HEIGHT (KM-MSL)
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2.4
2.1
1.8
1.5
1.2
0.9
0.6
0.3
0.0
0 6 12 18 24 30 36 42 48 54 60
WIND SPEED (Km/hr)
120 200 280 360 80 160 0
WIND DIRECTION (DEGREES)
4 8 12 16 20 24 28 32
TEMPERATURE (DEGREES CELCIUS)


PETROLIA DATE : JULY 16 1984 TIME : 1200 EDT
HEIGHT (KM-MSL)
3.0
2.7
2.4
2.1
1.8
1.5
1.2
0.9
0.6
0.3
0.0
0 6 12 18 24 30 36 42 48 54 60
WIND SPEED (Km/hr)
120 200 280 360 80 160 0
WIND DIRECTION (DEGREES)
4 8 12 16 20 24 28 32
TEMPERATURE (DEGREES CELCIUS)


PETROLIA DATE : JULY 16 1984 TIME : 1400 EDT
HEIGHT (KM-MSL)
3.0
2.7
2.4
2.1
1.8
1.5
1.2
0.9
0.6
0.3
0.0
0 6 12 18 24 30 36 42 48 54 60
WIND SPEED (Km/hr)
120 200 280 360 80 160 0
WIND DIRECTION (DEGREES)
4 8 12 16 20 24 28 32
TEMPERATURE (DEGREES CELCIUS)


PETROLIA DATE : JULY 17 1984 TIME : 0900 EDT
HEIGHT (KM-MSL)
3.0
2.7
2.4
2.1
1.8
1.5
1.2
0.9
0.6
0.3
0.0
0 6 12 18 24 30 36 42 48 54 60
WIND SPEED (Km/hr)
80 160 240 320 40 120 0
WIND DIRECTION (DEGREES)
4 8 12 16 20 24 28 32
TEMPERATURE (DEGREES CELCIUS)

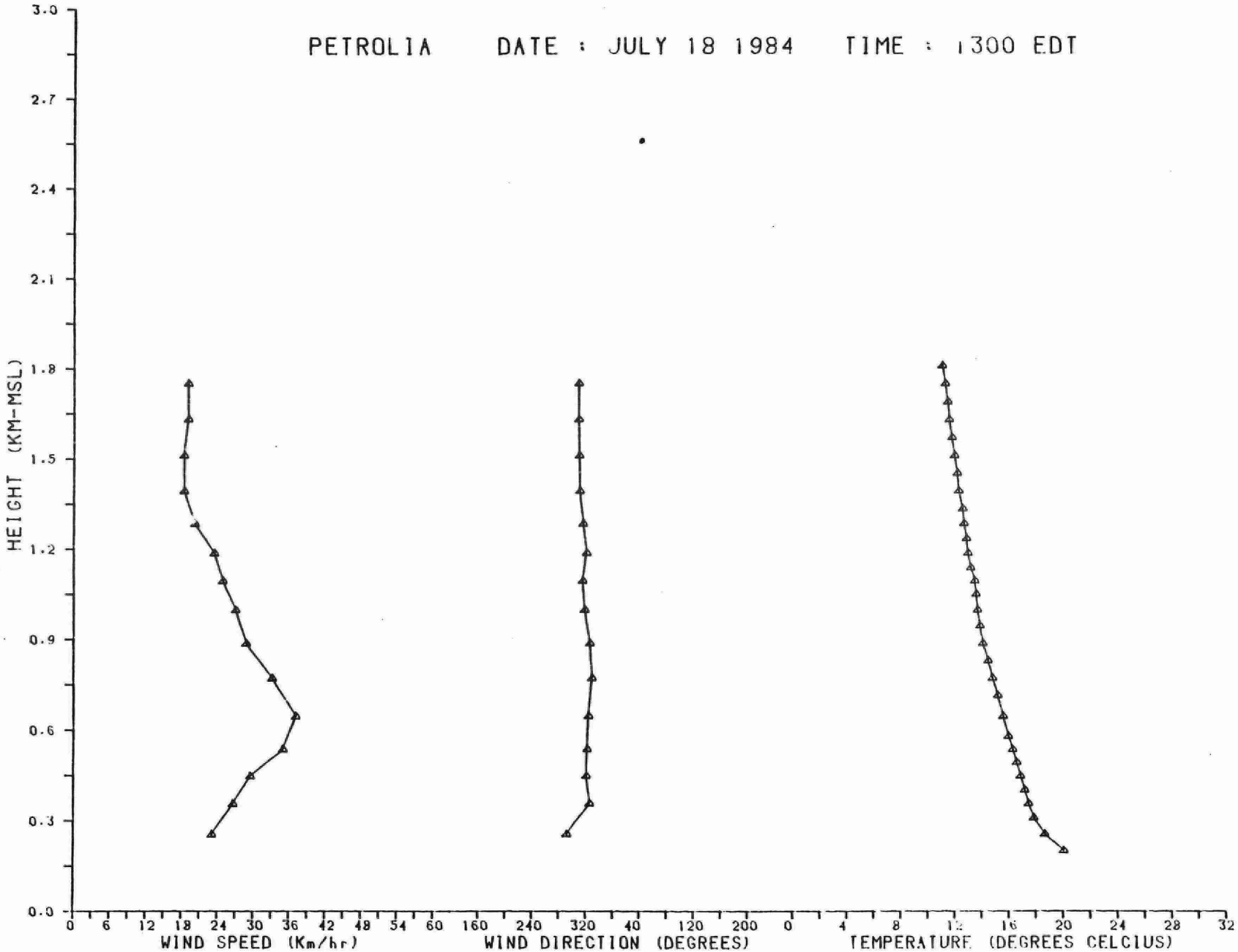

PETROLIA DATE : JULY 17 1984 TIME : 1030 EDT
HEIGHT (KM-MSL)
3.0
2.7
2.4
2.1
1.8
1.5
1.2
0.9
0.6
0.3
0.0
0 6 12 18 24 30 36 42 48 54 60 80
WIND SPEED (Km/hr)
160 240 320 40 120 0
WIND DIRECTION (DEGREES)
4 8 12 16 20 24 28 32
TEMPERATURE (DEGREES CELCIUS)

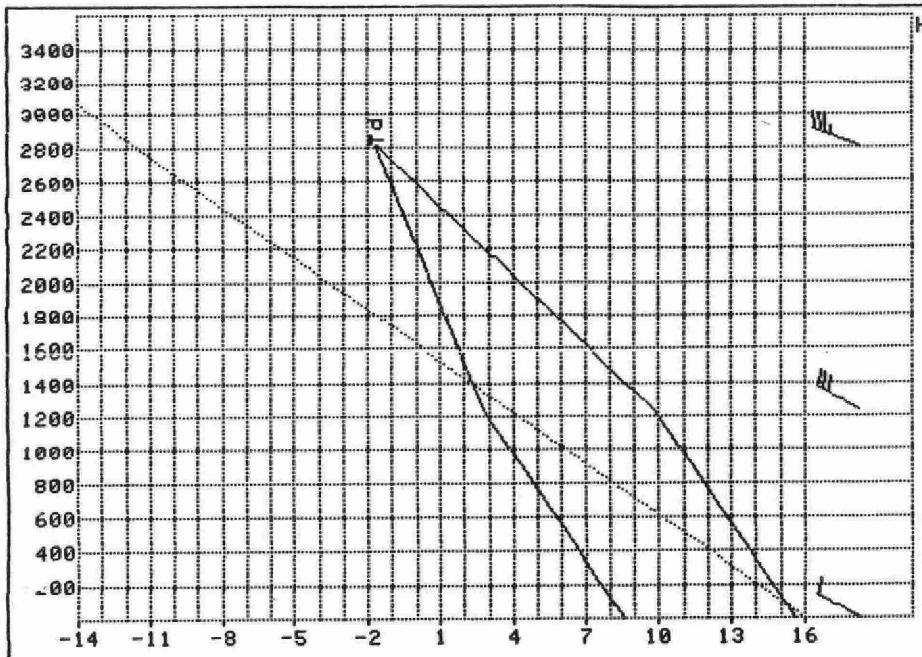

PETROLIA DATE : JULY 18 1984 TIME : 1200 EDT
HEIGHT (KM-MSL)
3.0
2.7
2.4
2.1
1.8
1.5
1.2
0.9
0.6
0.3
0.0
0 6 12 18 24 30 36 42 48 54 60
WIND SPEED (Km/hr)
160 240 320 40 120 200 0
WIND DIRECTION (DEGREES)
4 8 12 16 20 24 28 32
TEMPERATURE (DEGREES CELCIUS)

6. RADIOSONDE DATA

(ALL TIMES ARE EXPRESSED IN GREENWICH MEAN TIME(G.M.T.))

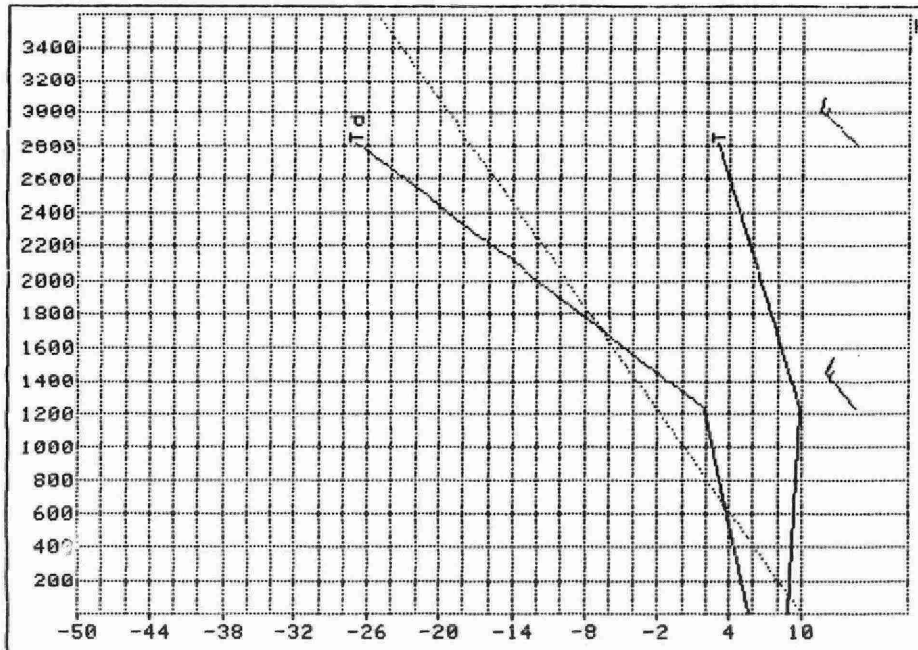
6.A. RADIOSONDE DATA FOR FLINT, MICHIGAN FOR THE PERIOD JUNE 25 - JULY 18, 1984


PETROLIA DATE : JULY 18 1984 TIME : 1300 EDT
HEIGHT (KM-MSL)
3.0
2.7
2.4
2.1
1.8
1.5
1.2
0.9
0.6
0.3
0.0
0 6 12 18 24 30 36 42 48 54 60
WIND SPEED (Km/hr)
160 240 320 40 120 200 0
WIND DIRECTION (DEGREES)
4 8 12 16 20 24 28 32
TEMPERATURE (DEGREES CELCIUS)



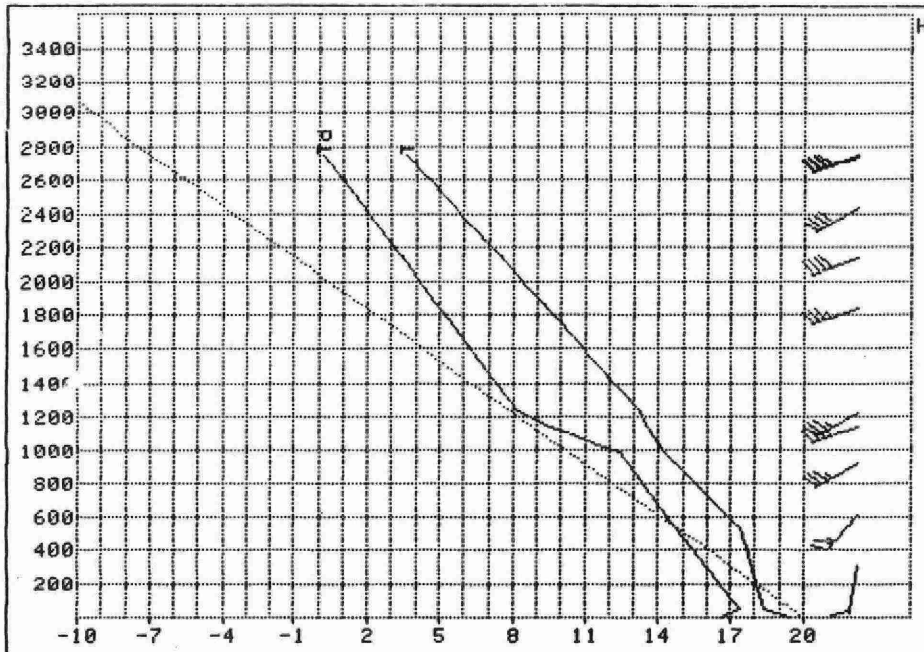
HEIGHT	PRES	TEMP	DEW	WD	WS
2809	700	-1.6	-1.7	285	33
1234	850	9.8	2.8	300	32
0	985	15.6	8.6	300	12

FLINT 84/06/25 0000Z



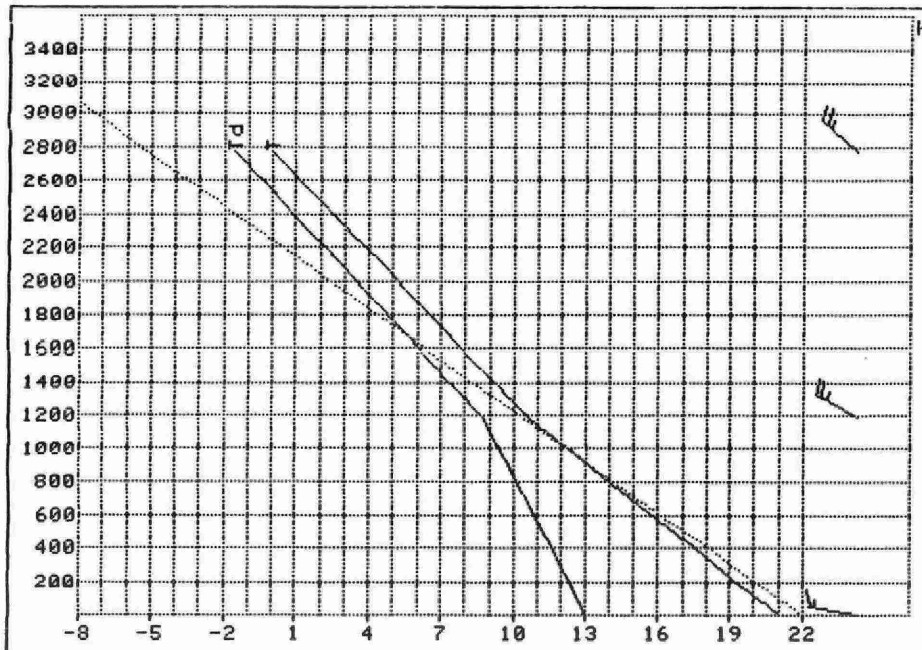
HEIGHT	PRES	TEMP	DEW	WD	WS
2828	700	3.0	-27.0	305	16
1236	850	9.8	1.8	315	13
0	987	8.8	5.6	180	3

FLINT 84/06/26 1200Z



HEIGHT	PRES	TEMP	DEW	WD	WS
2745				245	38
2440				240	41
2135				245	38
1830				250	37
1143	850	13.6	9.6	245	35
915				235	33
531	914	17.4	14.7		
305				190	11
0	973	19.4	16.6	180	7

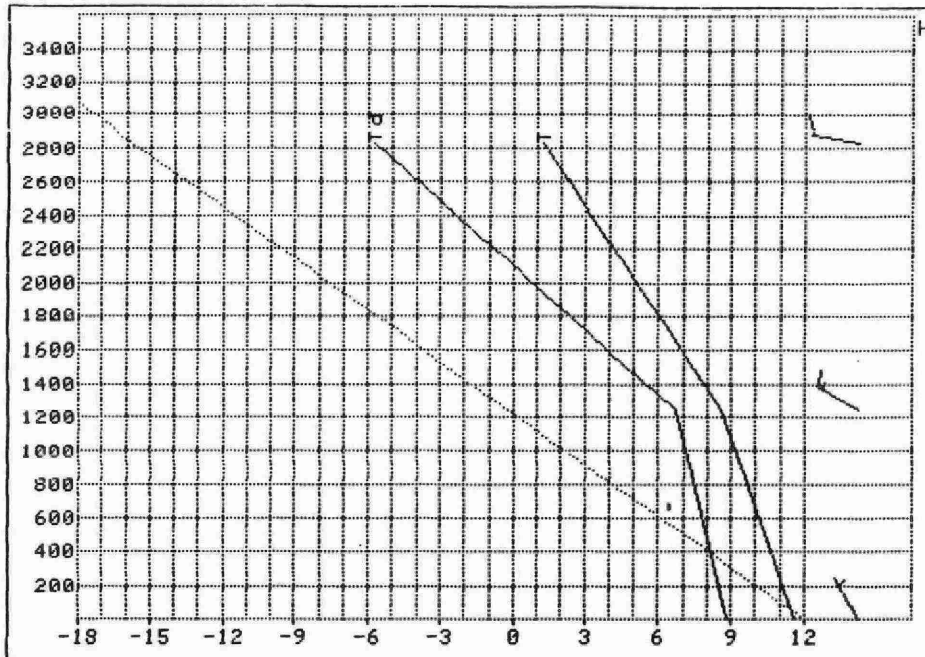
FLINT 84/06/27 1200Z



HEIGHT	PRES	TEMP	DEW	WD	WS
2777	700	.0	-1.6	310	27
1187	850	10.6	8.7	300	26
0	978	21.0	13.0	280	16

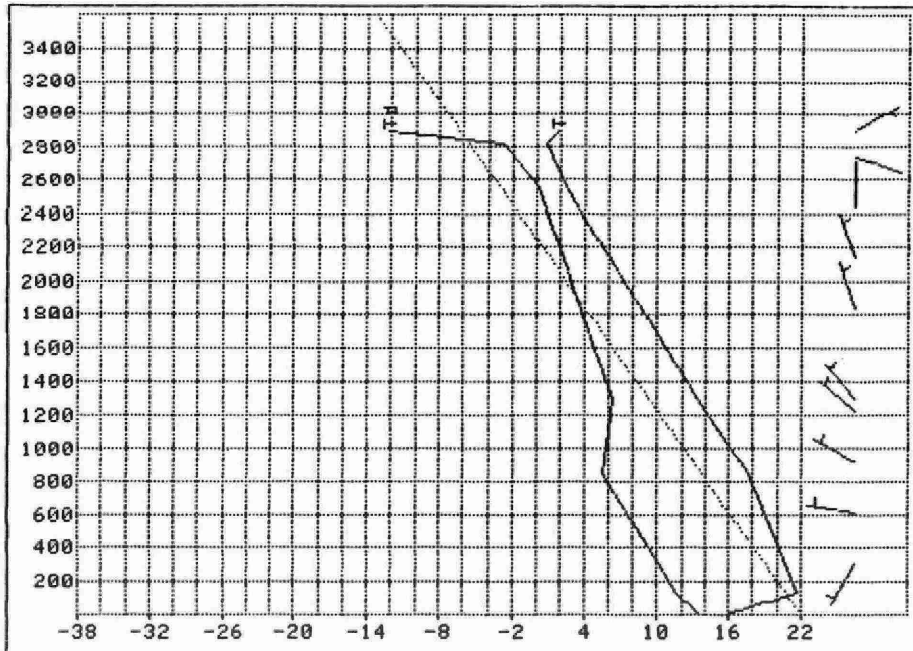
FLINT

84/06/28 0000Z



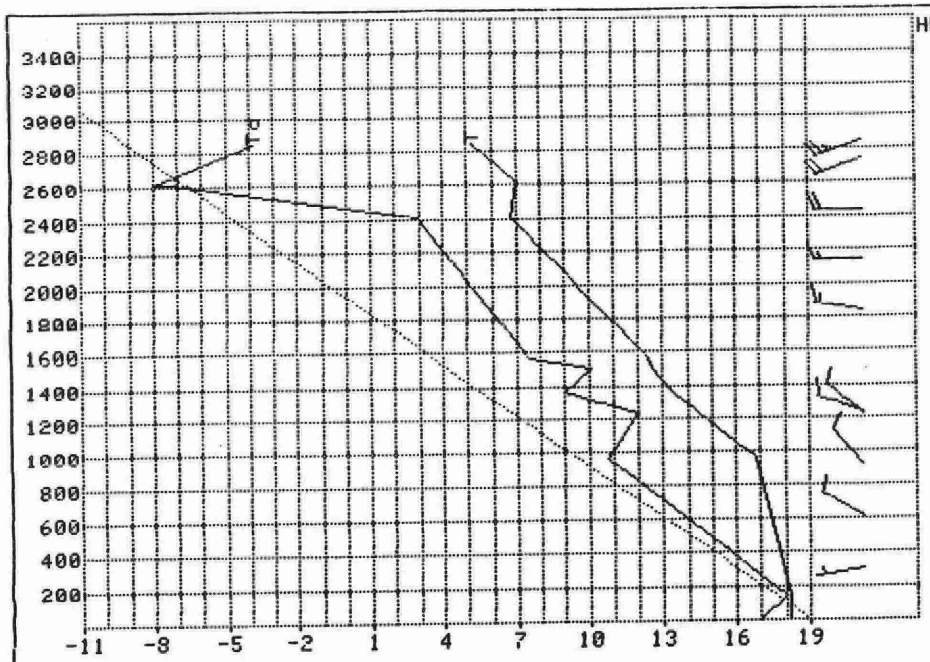
HEIGHT	PRES	TEMP	DEW	WD	WS
2834	700	1.2	-5.8	275	10
1248	850	8.6	6.7	295	16
0	988	11.6	8.8	330	3

FLINT 84/06/29 1200Z



HEIGHT	PRES	TEMP	DEW	WD	WS
2893	700	1.8	-12.2	55	4
2745				110	1
2556	730	2.4	.2		
2440				360	2
2135				340	3
1830				335	3
1220				310	5
851	896	17.6	5.6		
610				275	7
305				210	4
130	975	21.6	11.6		
0	990	15.8	13.6	190	3

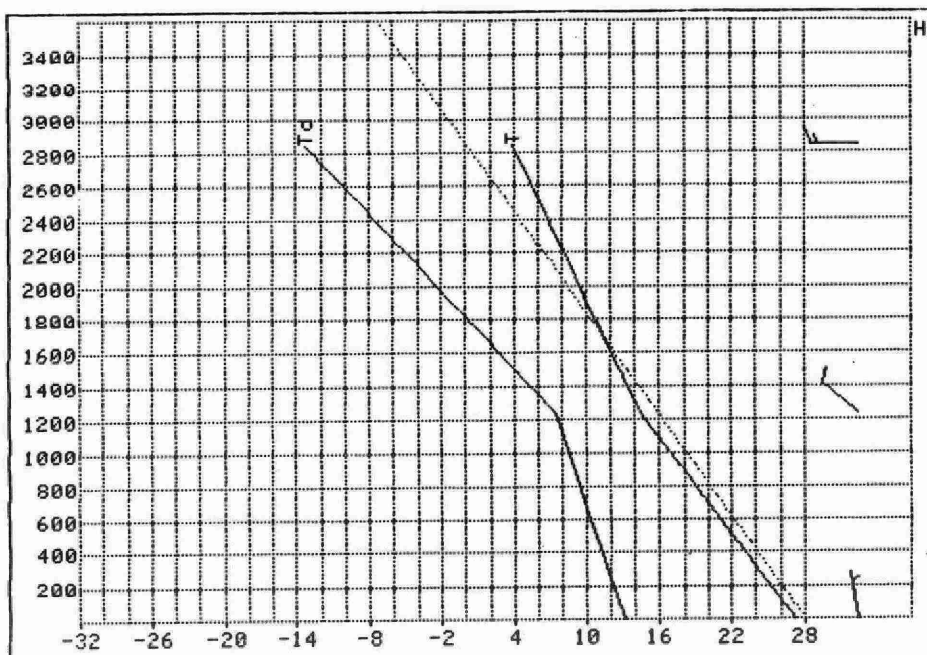
FLINT 84/07/02 1200Z



HEIGHT	PRES	TEMP	DEW	WD	WS
2745				250	21
2629	719	7.0	-0.0		
2416	738	6.8	2.9		
2135				270	17
1830				275	13
1506	824	12.6	10.1		
1367	838	13.4	9.0		
1220				305	9
915				320	9
610				300	10
305				260	5
140	967	18.2	18.0		
0	983	18.2	17.0	260	3

FLINT

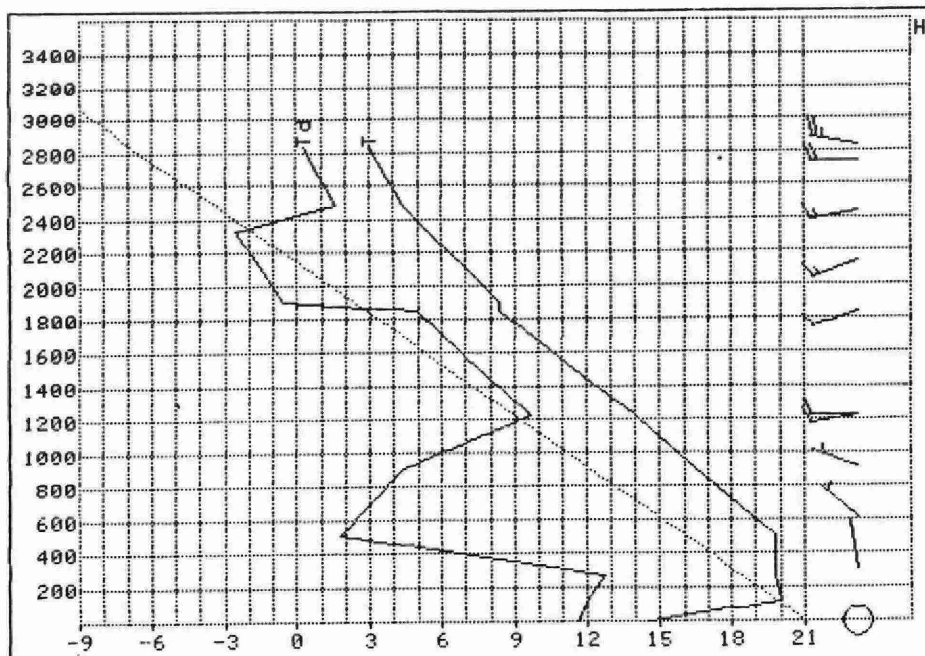
84/07/04 1200Z



FLINT

HEIGHT	PRES	TEMP	DEW	WD	WS
2845	700	3.8	-13.2	270	16
1234	850	14.4	7.4	310	8
0	981	27.2	13.2	350	6

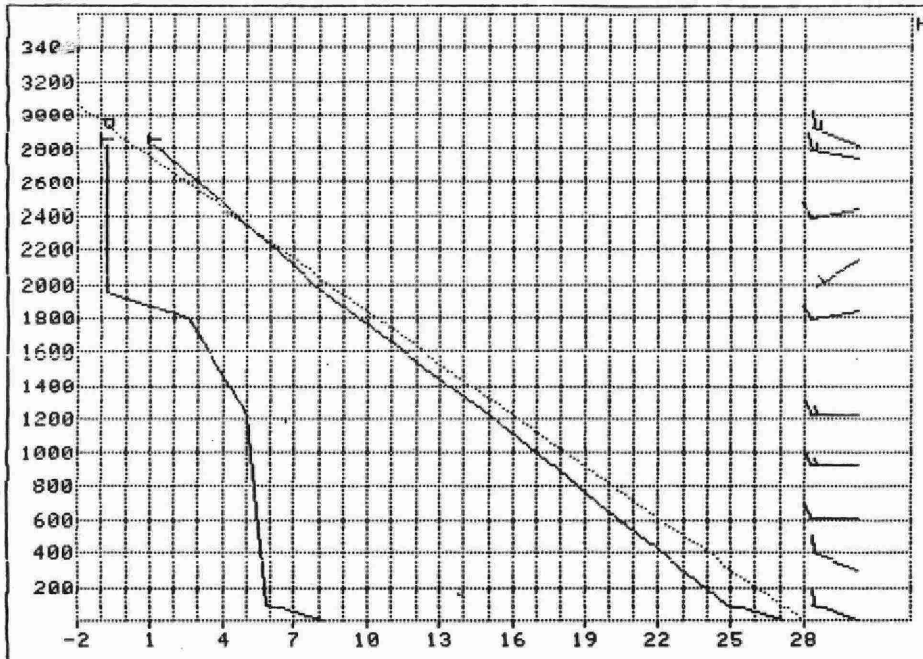
84/07/05 0000Z



FLINT

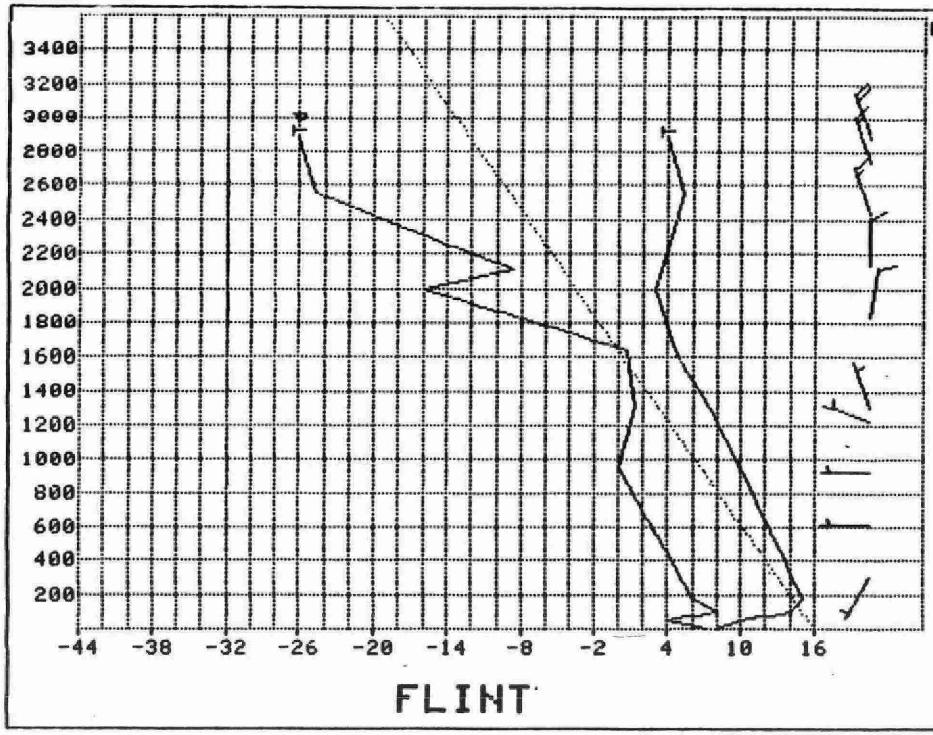
HEIGHT	PRES	TEMP	DEW	WD	WS
2745				265	21
2478	731	4.4	1.6		
2335	744	5.4	-2.6		
2135				250	14
1830				250	12
1220				265	8
904	883	16.4	4.4		
509	925	19.8	1.8		
273	951	19.8	12.8		
122	968	20.0	12.0		
0	982	14.6	11.6	0	0

84/07/05 1200Z



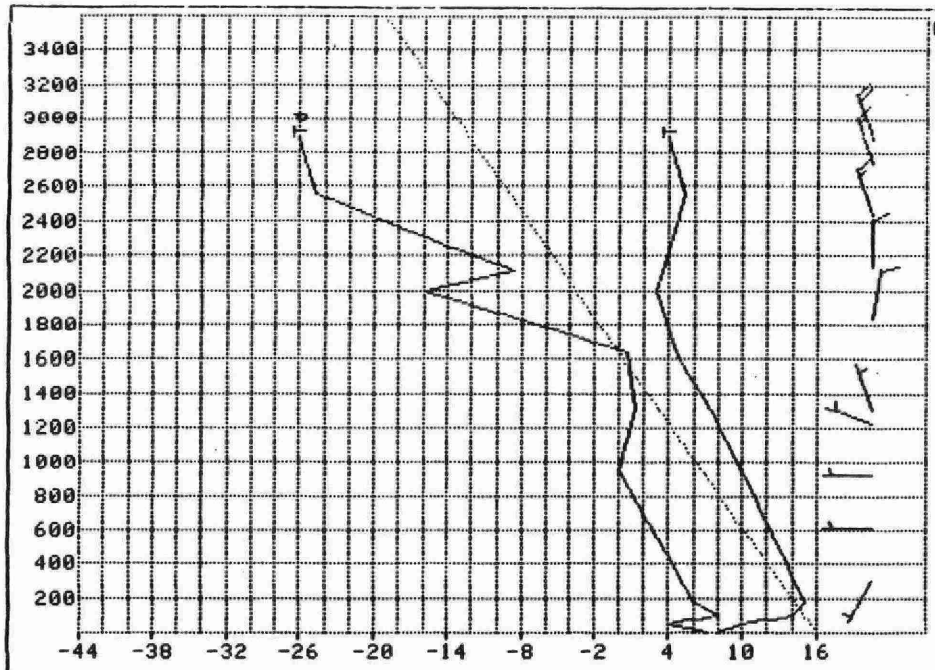
HEIGHT	PRES	TEMP	DEW	WD	WS
2745				280	13
2440				255	11
2135				240	7
1954	779	8.2	-.8		
1799	794	9.6	2.6		
1220				265	13
915				265	13
610				270	12
305				285	10
0	980	27.2	8.2	290	9

FLINT 84/07/06 0000Z



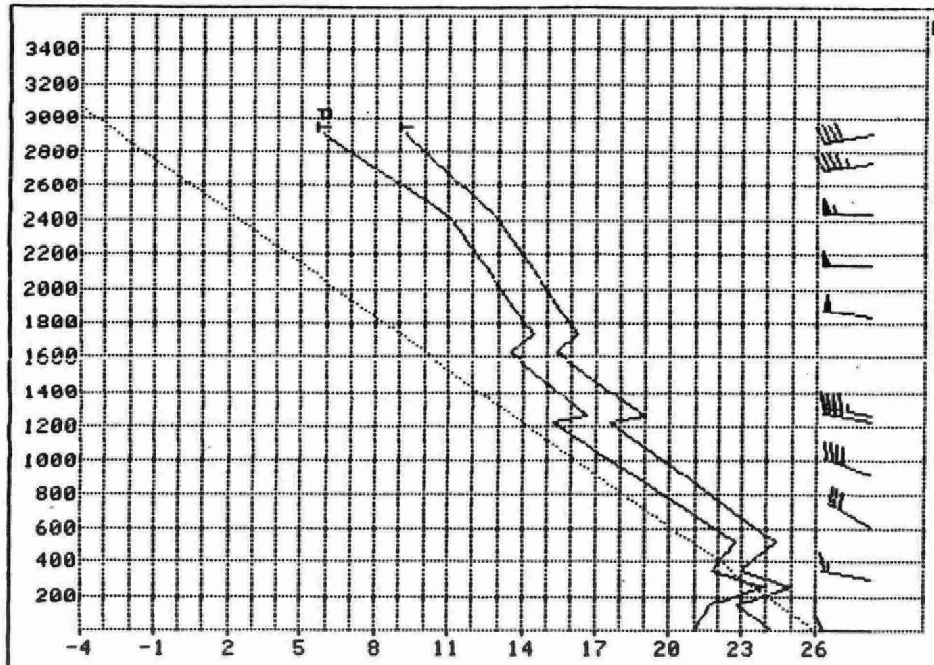
HEIGHT	PRES	TEMP	DEW	WD	WS
2883	700	4.0	-26.0	335	21
2745				340	17
2553	729	5.2	-24.8		
2440				340	15
2135				360	11
2003	780	3.0	-16.0		
1830				5	10
1636	816	4.6	.6		
1220				290	4
915				265	5
610				270	5
305				210	3
178	973	15.0	6.0		
0	994	7.8	7.2	190	3

FLINT 84/07/08 1200Z



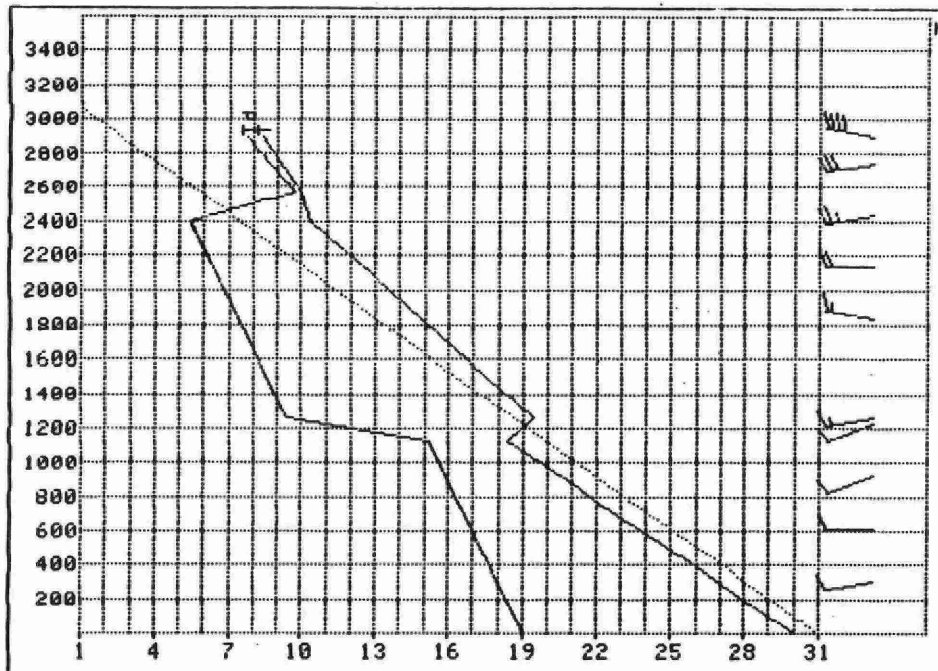
HEIGHT	PRES	TEMP	DEW	WD	WS
2883	700	4.0	-26.0	335	21
2745				340	17
2553	729	5.2	-24.8		
2440				340	15
2135				360	11
2003	780	3.0	-16.0		
1830				5	10
1636	816	4.6	.6		
1220				290	4
915				265	5
610				270	5
305				210	3
178	973	15.0	6.0		
0	994	7.8	7.2	190	3

FLINT 84/07/08 1200Z



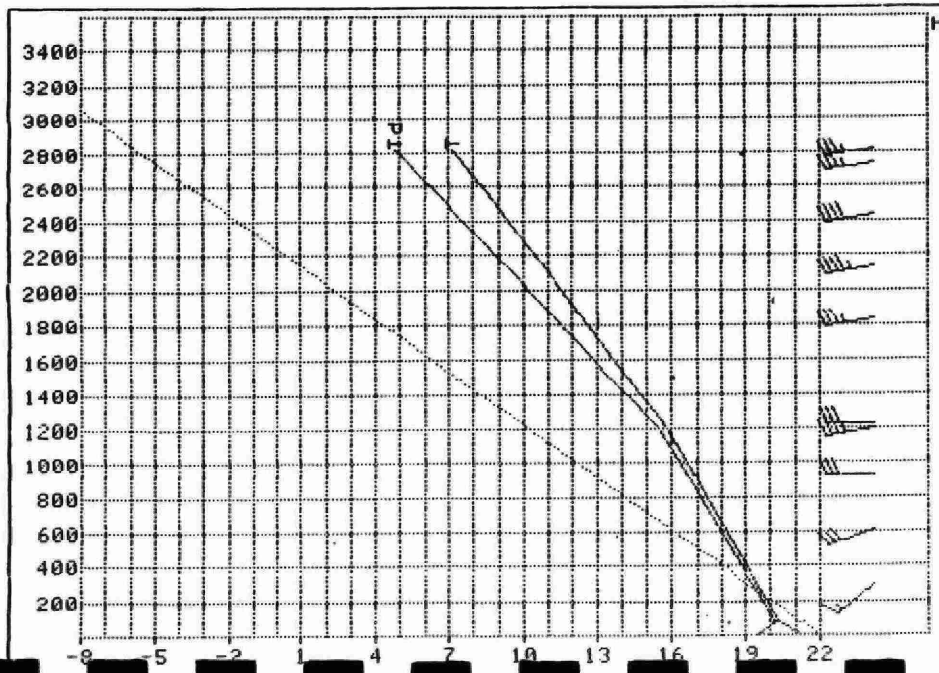
HEIGHT	PRES	TEMP	DEW	WD	WS
2908	700	9.2	5.9	260	40
2745				260	46
2400	744	13.0	11.2		
2135				270	51
1830				275	50
1626	816	15.4	13.5		
1220				275	37
915				285	30
515	927	24.4	22.7		
305				275	14
151	967	22.8	21.7		
0	984	24.2	21.0	270	9

FLINT 84/07/10 1200Z

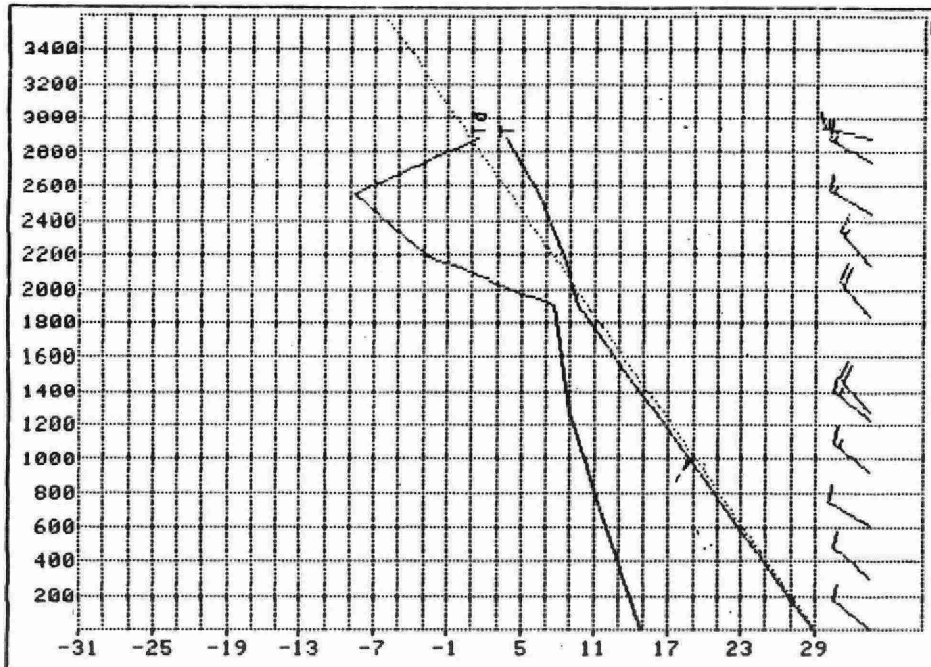


HEIGHT	PRES	TEMP	DEW	WD	WS
2890	700	8.4	7.8	275	38
2745				255	30
2566	728	10.0	9.7		
2397	743	10.4	5.4		
2135				270	20
1830				275	16
1253	850	19.4	9.4	260	13
1133	862	18.4	15.2		
915				250	10
610				265	8
305				255	9
0	982	30.0	19.0	260	9

FLINT 84/07/11 0000Z

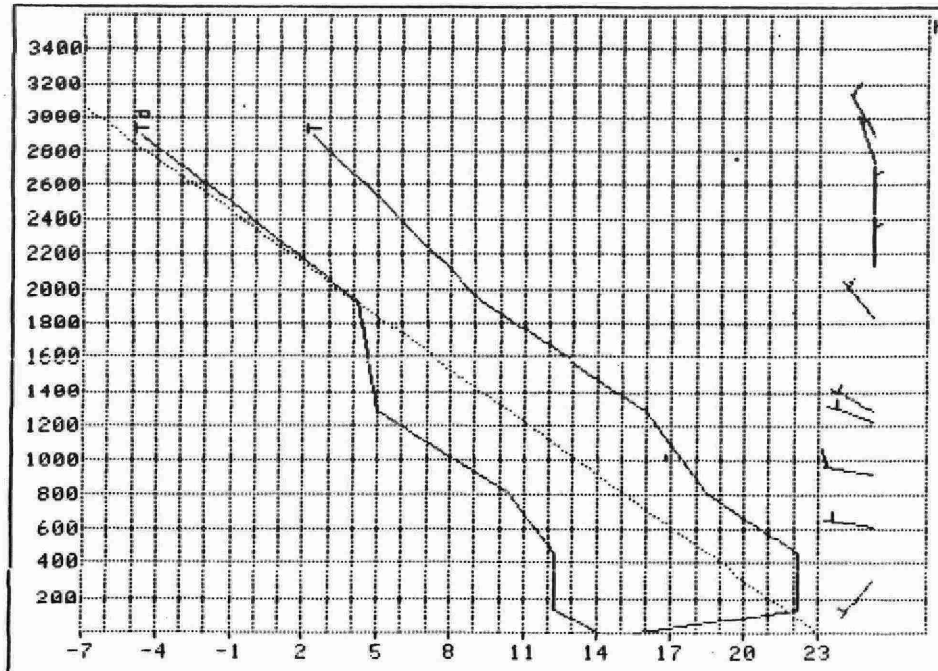


HEIGHT	PRES	TEMP	DEW	WD	WS
2745				260	36
2440				260	39
2135				260	43
1830				255	36
1197	850	15.8	15.5	260	33
915				265	29
610				250	28
305				225	13
0	978	21.2	19.5	220	8

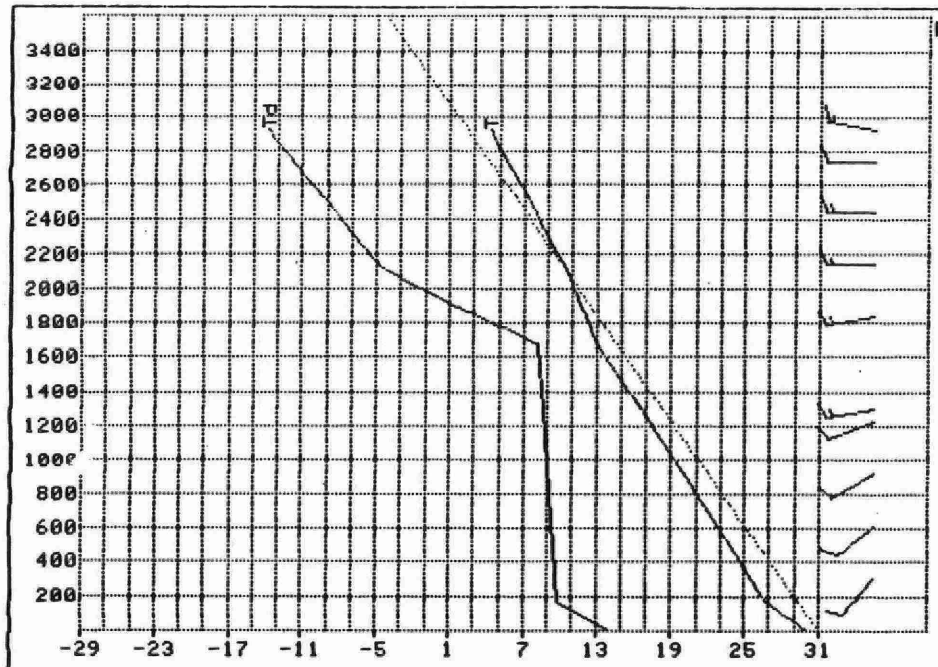


HEIGHT	PRES	TEMP	DEW	WD	WS
2888	700	3.8	1.4	280	15
2745				295	14
2557	729	6.4	-8.6		
2440				300	14
2135				315	16
1830				315	18
1220				310	17
915				305	15
610				295	12
305				305	11
0	985	20.8	14.8	310	11

FLINT 84/07/13 0000Z

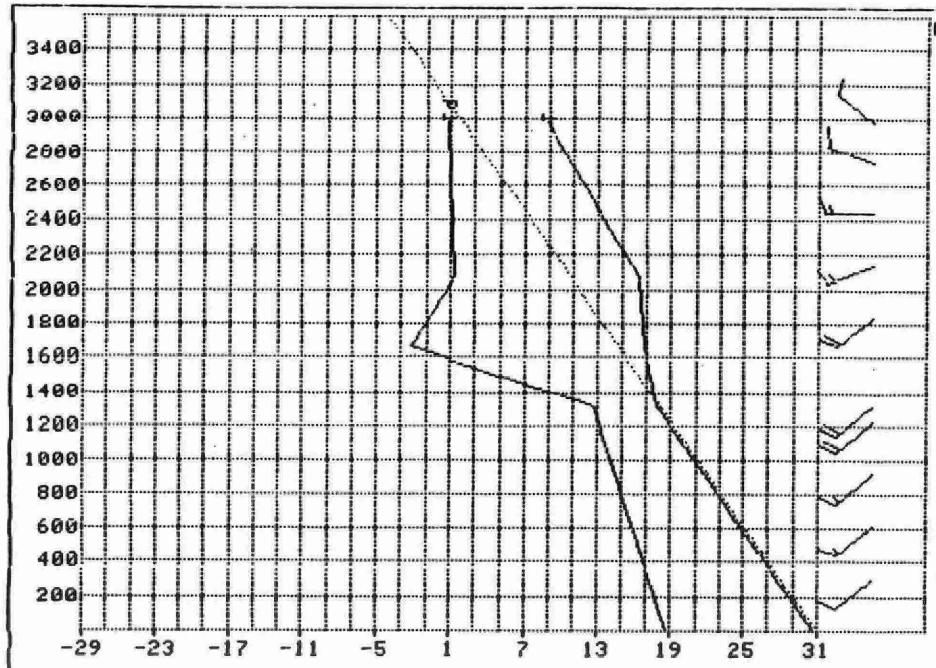


HEIGHT	PRES	TEMP	DEW	WD	WS
2892	700	2.4	-4.6	325	12
2745				335	6
2440				355	6
2135				355	6
1830				320	5
1220				285	7
808	899	18.4	10.4		
610				275	7
464	937	22.2	12.2		
305				215	4
131	973	22.2	12.2		
0	988	15.6	14.1	190	3



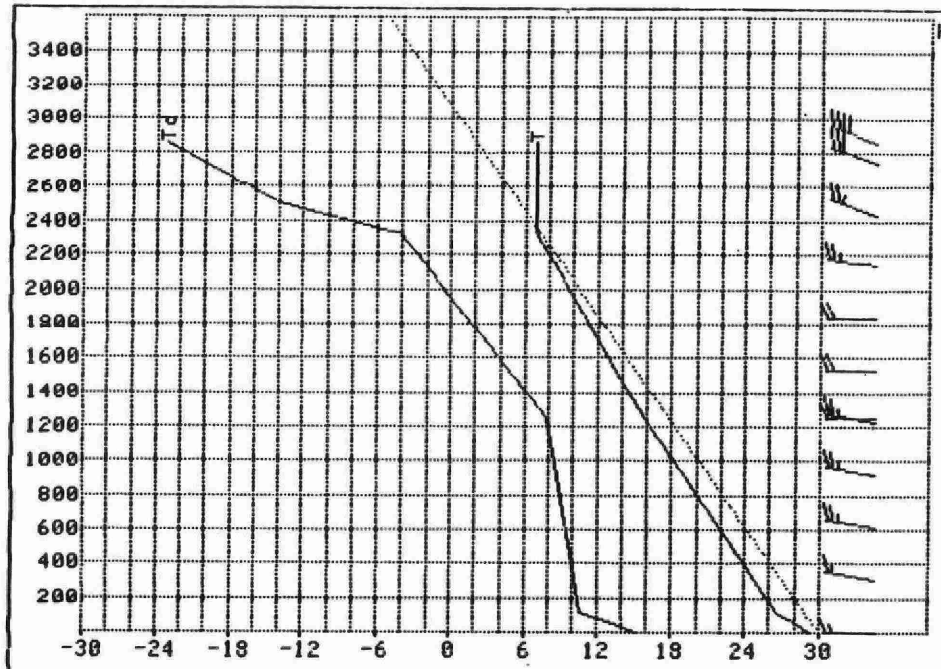
HEIGHT	PRES	TEMP	DEW	WD	WS
2916	709	4.2	-13.8	275	13
2745				270	11
2440				265	13
2112	772	10.4	-4.6		
1830				260	14
1674	814	13.0	8.1		
1220				250	12
915				235	11
610				225	10
305				220	8
159	970	26.0	9.0		
0	988	30.0	14.0	220	7

FLINT 84/07/14 0000Z



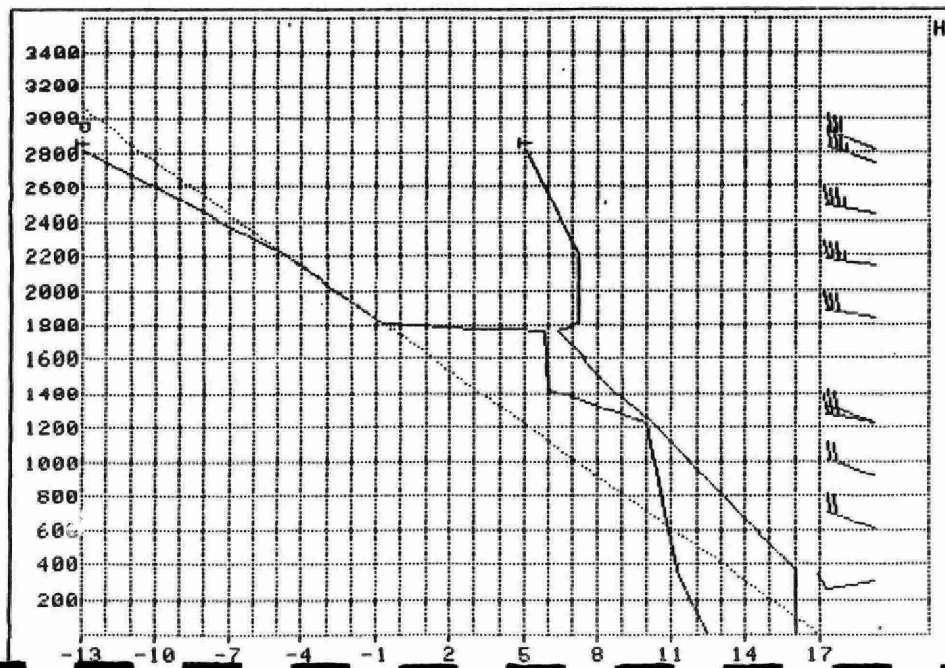
HEIGHT	PRES	TEMP	DEW	WD	WS
2961	700	8.8	.8	305	12
2745				285	11
2440				265	14
2066	779	16.4	1.4		
1830				230	19
1655	818	16.8	-2.2		
1220				225	18
915				230	16
610				225	14
305				230	12
0	989	30.6	18.6	230	11

FLINT 84/07/15 0000Z



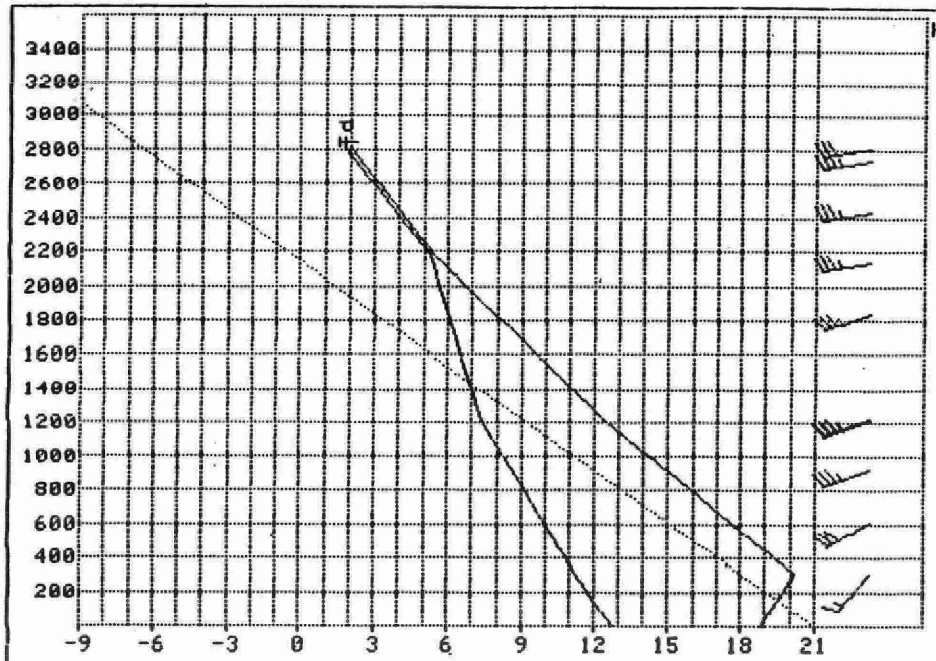
HEIGHT	PRES	TEMP	DEW	WD	WS
2858	700	6.8	-23.2	285	39
2745				285	30
2502	731	6.8	-14.2		
2325	747	6.8	-4.2		
2135				275	25
1830				265	22
1525				265	22
1220				275	26
915				275	26
610				280	24
305				275	17
115	969	26.6	10.6		
0	982	29.2	15.2	270	15

FLINT 84/07/16 0000Z



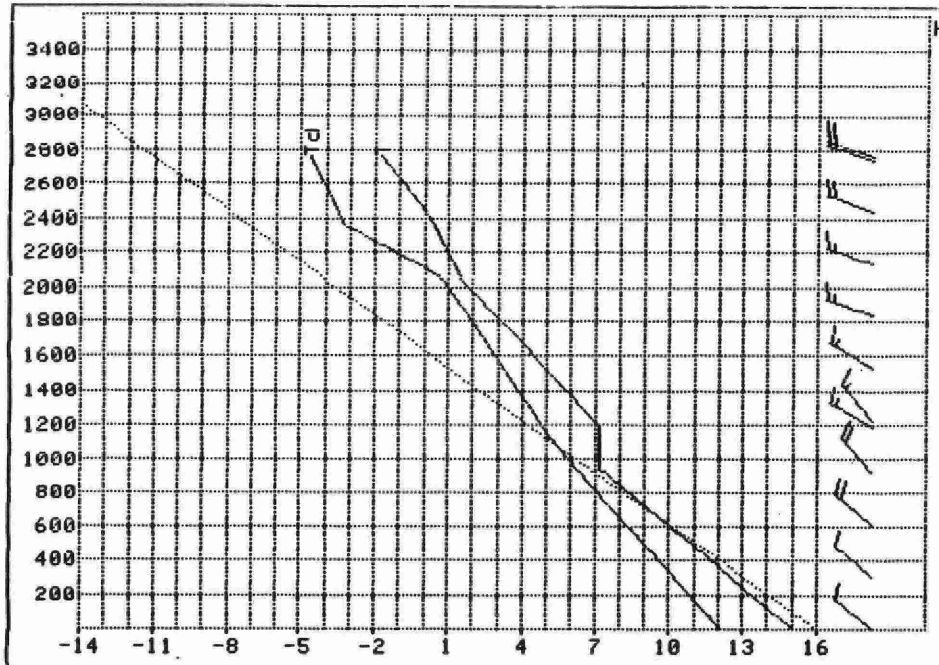
HEIGHT	PRES	TEMP	DEW	WD	WS
2745				285	34
2440				280	35
2135				280	36
1754	798	6.4	5.8		
1422	831	8.6	6.0		
1220				285	19
915				290	19
610				290	20
305				260	10
0	984	16.0	12.4	250	6

FLINT 84/07/16 1200Z



HEIGHT	PRES	TEMP	DEW	WD	WS
2745				255	33
2440				255	33
2135				255	35
1830				250	37
1207	850	12.4	7.4	245	35
915				245	35
610				240	31
305				215	17
0	980	18.8	12.8	210	13

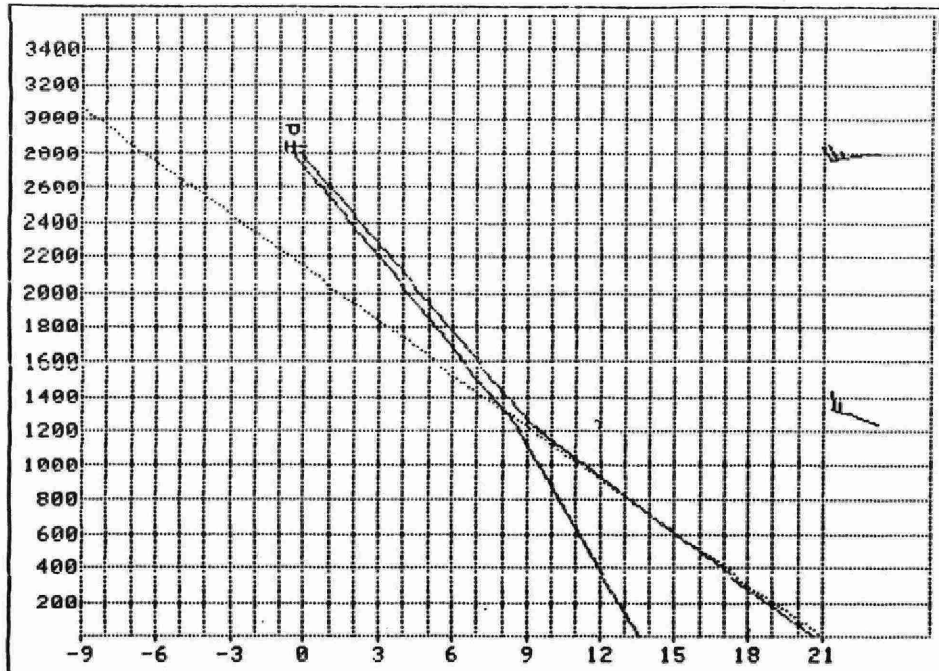
FLINT 84/07/17 1200Z



HEIGHT	PRES	TEMP	DEW	WD	WS
2745				285	19
2360	736	.4	-3.2		
2040	766	1.6	.8		
1830				290	16
1525				295	17
1187	850	7.2	4.8	295	16
915				315	19
610				310	20
305				310	12
0	991	15.0	12.1	310	10

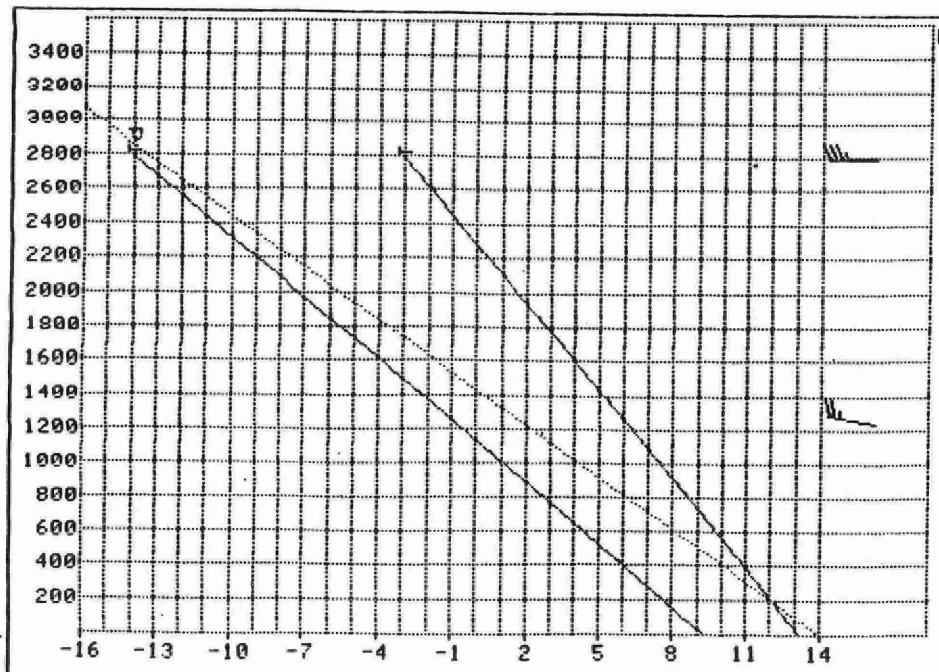
FLINT 84/07/18 1200Z

6. B RADIOSONDE DATA FOR BUFFALO, NEW YORK FOR THE PERIOD JUNE 25-JULY 18, 1984



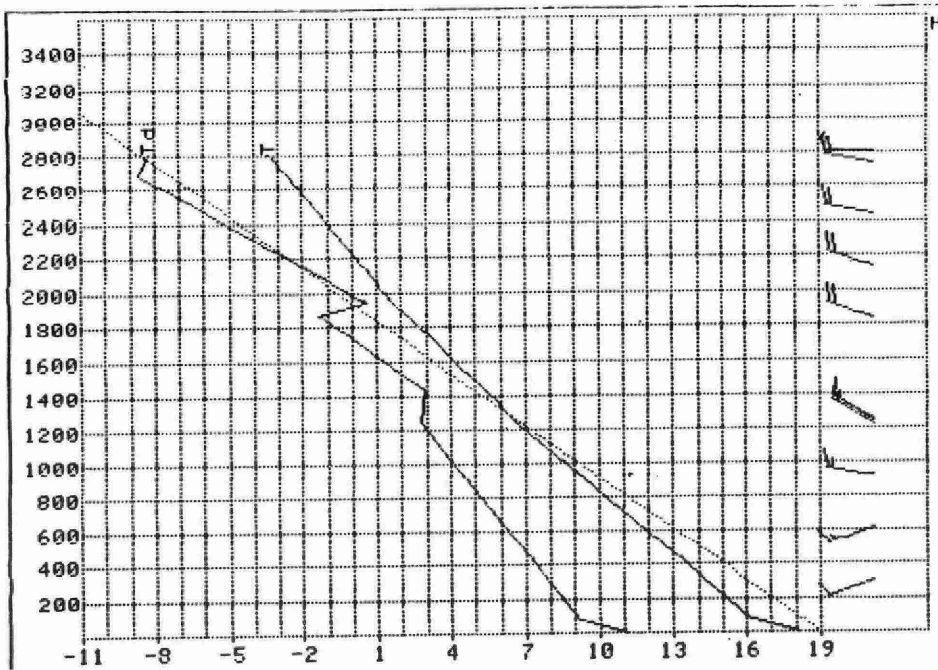
HEIGHT	PRES	TEMP	DEW	WD	WS
2016	700	-.2	-.5	255	26
1235	850	9.2	8.5	285	17
0	984	20.6	13.6	220	10

BUFFALO 84/06/25 0000Z



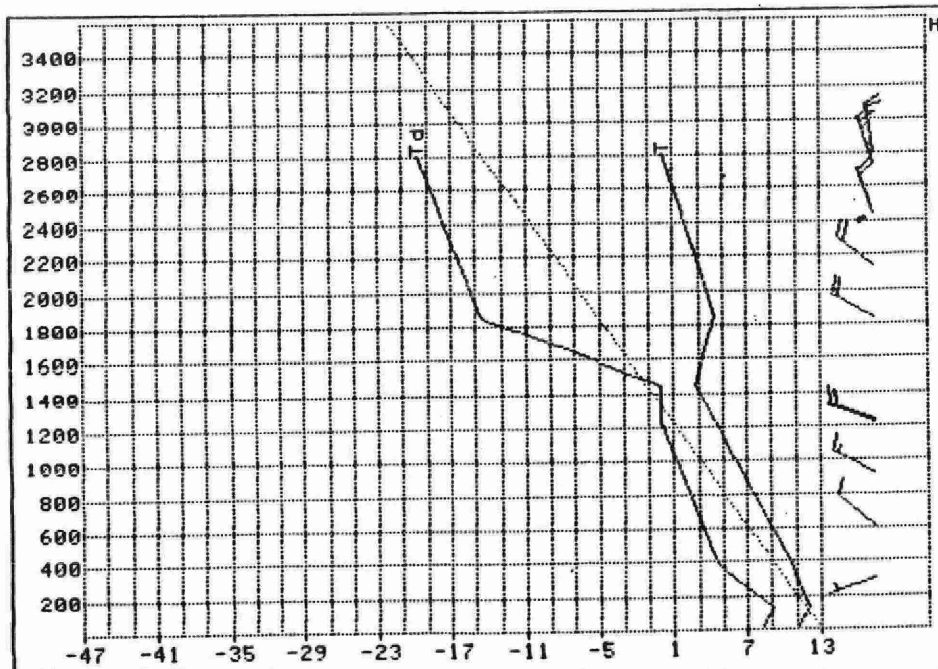
HEIGHT	PRES	TEMP	DEW	WD	WS
2792	700	-3.0	-14.0	270	36
1230	850	6.2	-.8	280	25
0	986	13.2	9.3	200	5

BUFFALO 84/06/25 1200Z



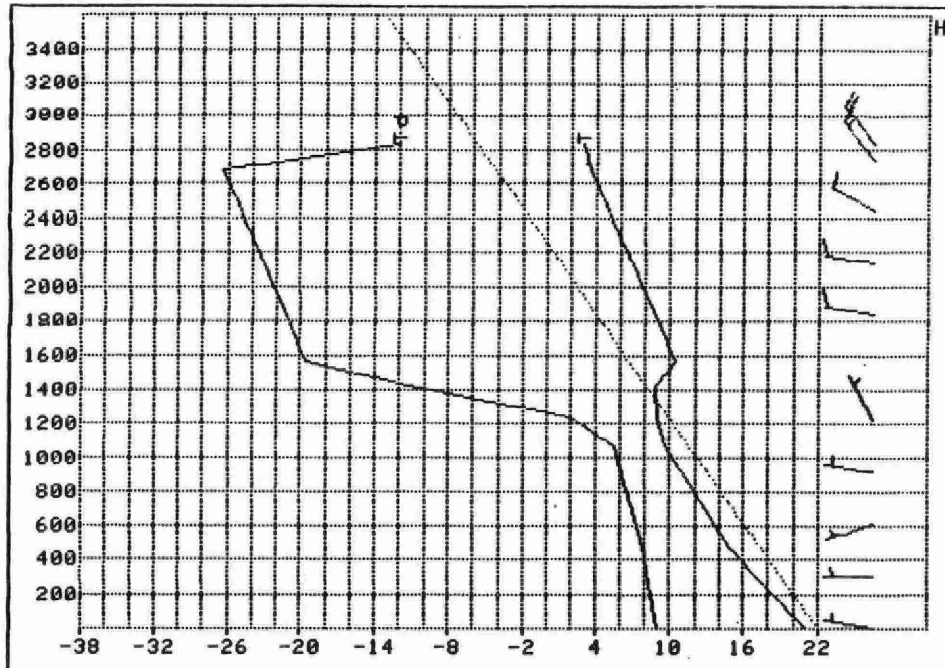
HEIGHT	PRES	TEMP	DEW	WD	WS
2811	700	-3.4	-8.2	270	19
2687	711	-2.6	-8.6		
2440				280	20
2135				285	20
1830				290	18
1431	832	5.4	2.9		
1220				295	15
915				275	14
610				250	13
305				250	12
0	987	10.2	11.2	250	11

BUFFALO 84/06/26 0000Z



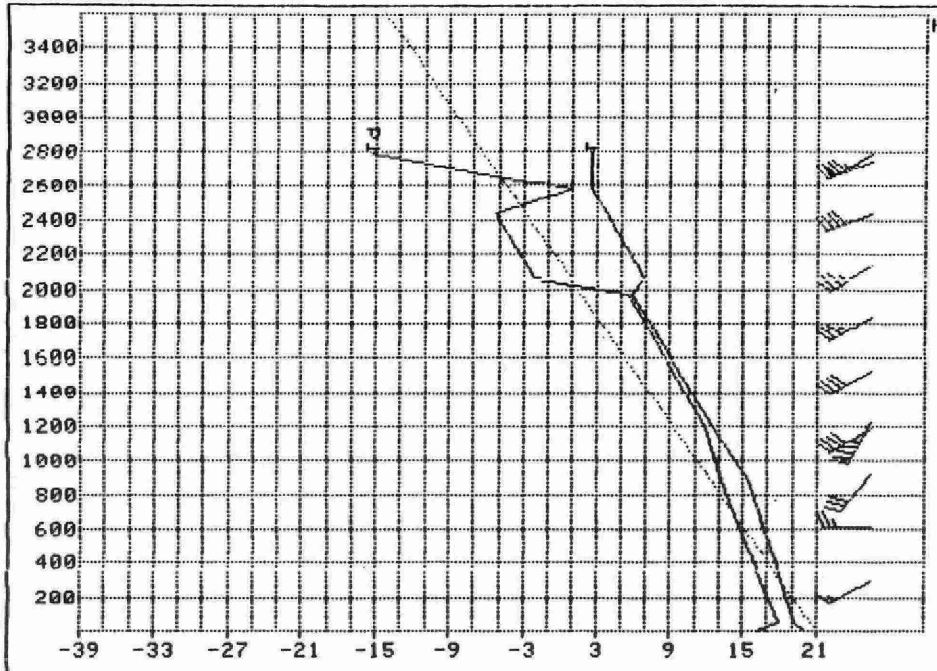
HEIGHT	PRES	TEMP	DEW	WD	WS
2745				340	23
2440				335	21
2135				310	19
1830				300	19
1444	829	2.8	-.1		
1220				285	18
915				295	15
610				310	9
305				250	5
135	972	12.0	9.1		
0	989	11.0	8.1	210	5

BUFFALO [illegible] 1[illegible]Z



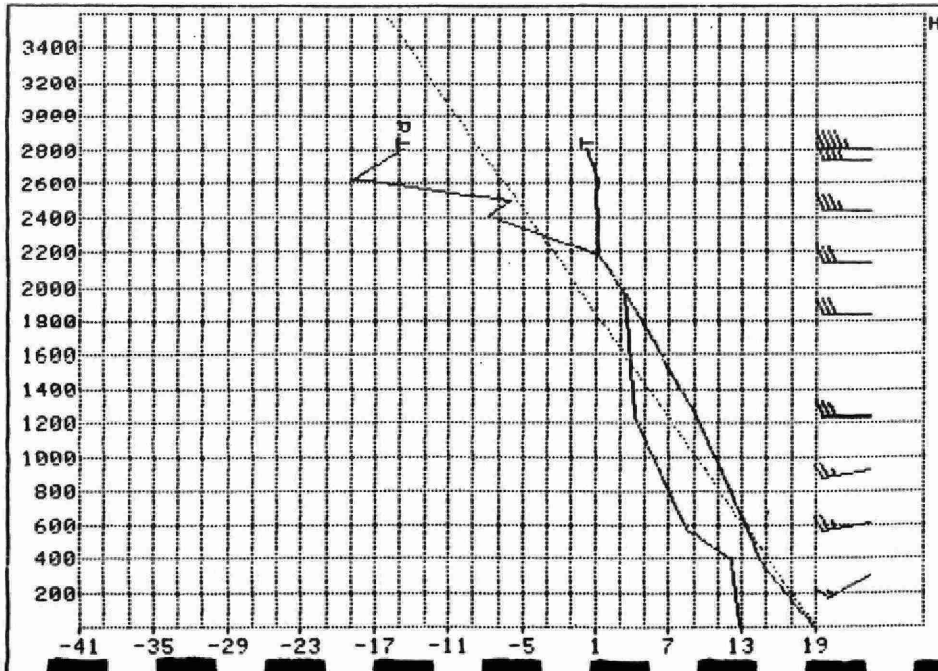
HEIGHT	PRES	TEMP	DEW	WD	WS
2836	700	3.0	-12.0	315	18
2687	713	3.6	-26.4		
2440				300	11
2135				280	10
1830				275	11
1562	'818	10.4	-19.6		
1423	832	8.8	-11.2		
1220				325	3
1067	868	9.6	5.5		
915				275	3
610				250	6
474	932	14.8	7.8		
305				270	7
0	986	21.0	9.0	280	7

BUFFALO 84/06/27 0000Z



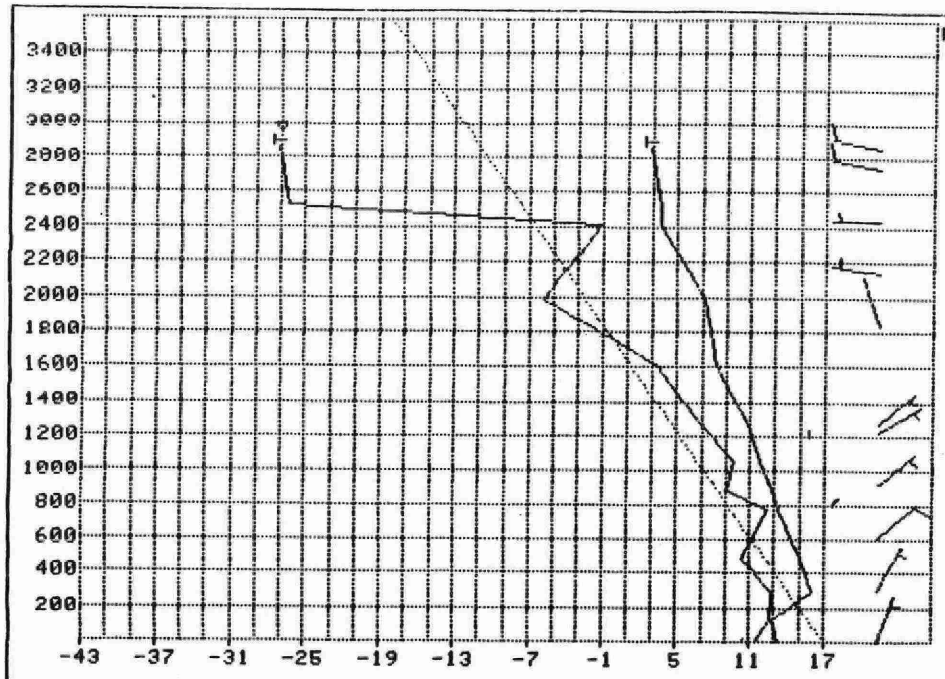
HEIGHT	PRES	TEMP	DEW	WD	WS
2745				245	45
2581	718	2.6	.9		
2436	731	3.8	-5.2		
2135				240	37
1982	773	5.8	5.6		
1830				240	36
1525				235	39
1187	850	12.6	11.9	235	40
886	881	15.4	13.2		
610				265	26
305				240	16
0	978	20.0	16.1	230	12

BUFFALO 84/06/28 0000Z



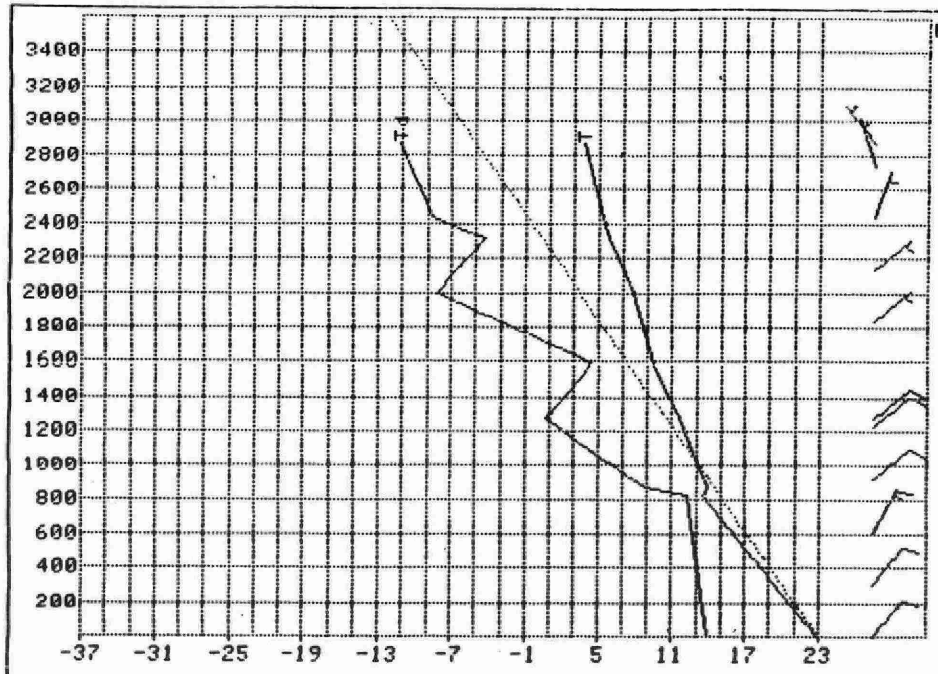
HEIGHT	PRES	TEMP	DEW	WD	WS
2745				270	38
2610	717	1.2	-10.0		
2408	736	1.2	-7.8		
2135				265	30
1962	770	3.4	3.4		
1830				270	28
1220				265	28
915				260	27
581	919	13.4	8.4		
305				235	14
0	985	18.8	12.8	230	11

BUFFALO 84/06/28 1200Z



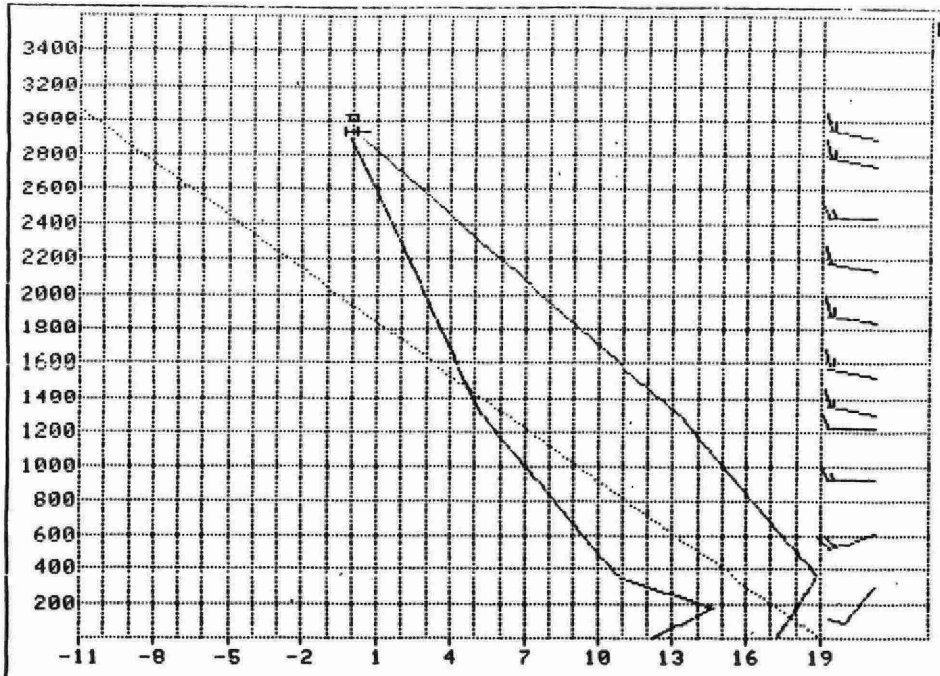
HEIGHT	PRES	TEMP	DEW	WD	WS
2861	700	2.8	-27.2	280	9
2745				280	8
2411	740	3.6	-1.1		
2135				275	4
1983	780	7.2	-5.8		
1830				335	2
1605	817	8.2	3.4		
1220				55	5
1064	871	11.8	9.6		
915				50	7
772	902	13.2	12.4		
610				45	9
480	934	15.0	10.3		
294	955	16.0	12.8		
128	974	12.8	12.6		
0	989	13.2	11.4	20	3

BUFFALO 84/06/30 1200Z



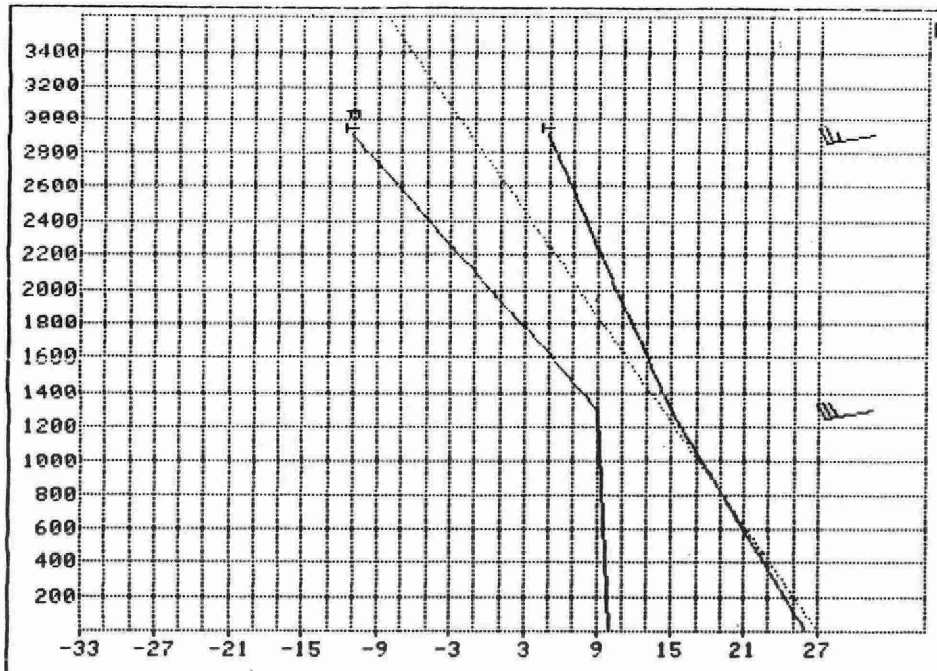
HEIGHT	PRES	TEMP	DEW	WD	WS
2869	700	3.8	-11.2	320	4
2745				335	5
2439	738	5.4	-8.6		
2318	749	5.8	-4.2		
2135				45	3
1998	779	7.8	-8.2		
1830				50	4
1587	819	9.4	4.4		
1220				50	10
819	897	13.6	12.2		
610				30	13
305				35	11
0	988	22.8	13.8	40	11

BUFFALO 84/07/01 0000Z



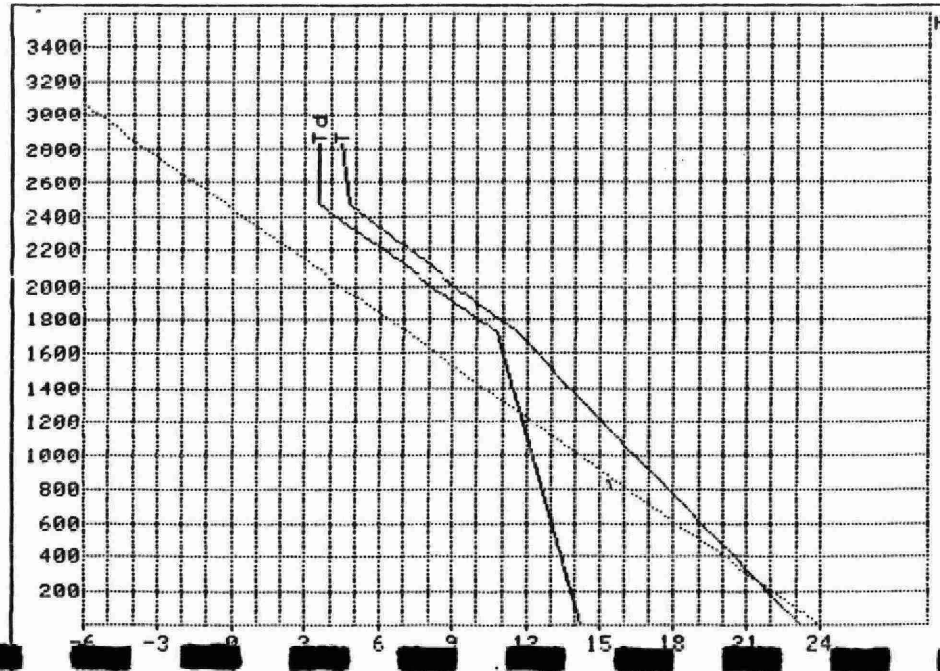
HEIGHT	PRES	TEMP	DEW	WD	WS
2897	700	.4	-.1	280	17
2745				275	15
2440				270	13
2135				275	12
1830				280	13
1525				280	13
1220				270	12
915				265	14
610				250	18
305				215	10
173	971	18.0	14.7		
0	991	17.2	12.2	200	6

BUFFALO 84/07/03 1200Z



HEIGHT	PRES	TEMP	DEW	WD	WS
2904	700	4.8	-11.2	260	24
1294	850	15.0	9.0	255	20
0	988	26.0	10.0	230	13

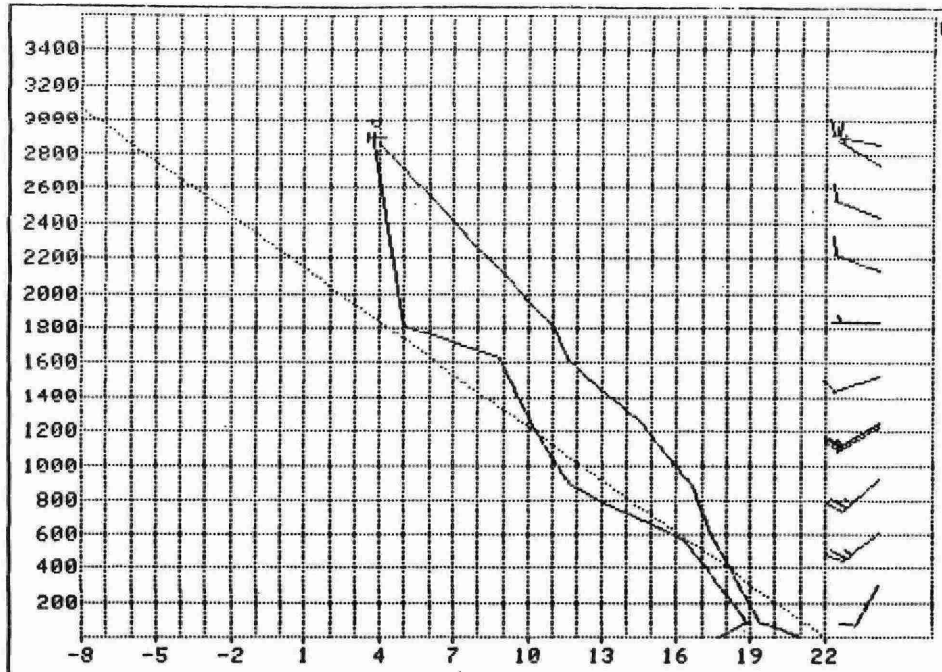
BUFFALO 84/07/04 0000Z



HEIGHT	PRES	TEMP	DEW	WD	WS
2837	700	4.4	3.5		77
2473	732	4.8	3.5		
1714	803	11.6	10.8		
0	985	23.2	14.2	220	11

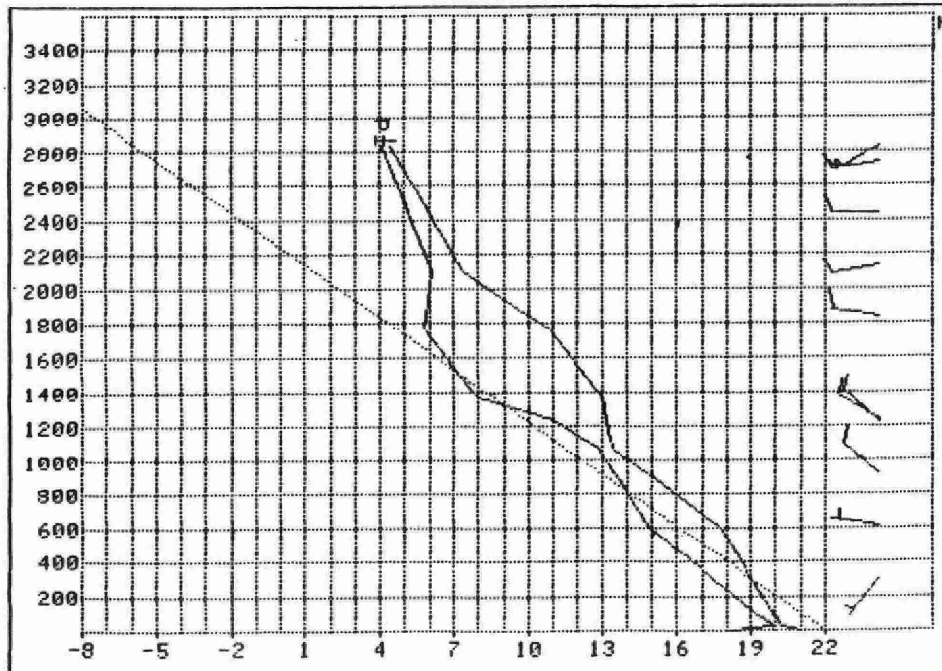
BUFFALO 84/07/04 1200Z

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HEIGHT	PRES	TEMP	DEW	WD	WS
2855	700	4.0	3.7	280	14
2745				295	13
2440				290	10
2135				285	8
1809	795	11.0	5.0		
1525				245	11
1220				235	18
882	887	16.6	11.7		
581	919	17.4	16.2		
305				205	12
0	984	21.0	17.7	200	9

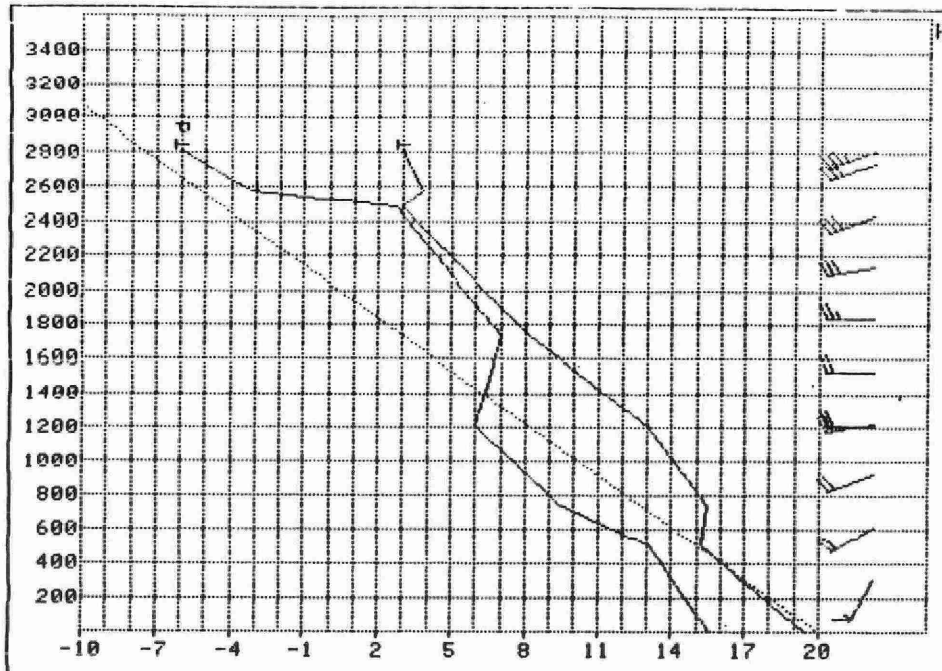
BUFFALO 84/07/05 0000Z



HEIGHT	PRES	TEMP	DEW	WD	WS
2745				260	13
2440				265	12
2093	767	7.4	6.1		
1768	790	10.0	5.0		
1365	838	13.0	8.0		
1220				310	8
1074	866	13.4	12.9		
915				305	0
600	916	17.8	14.9		
305				215	6
0	983	21.0	18.2	190	7

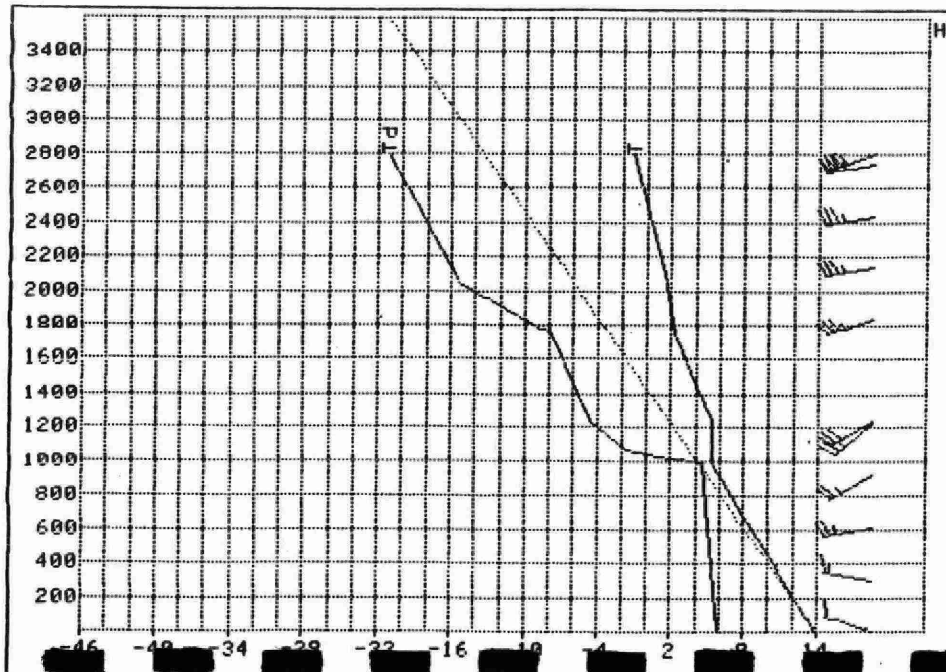
BUFFALO 84/07/05 1200Z

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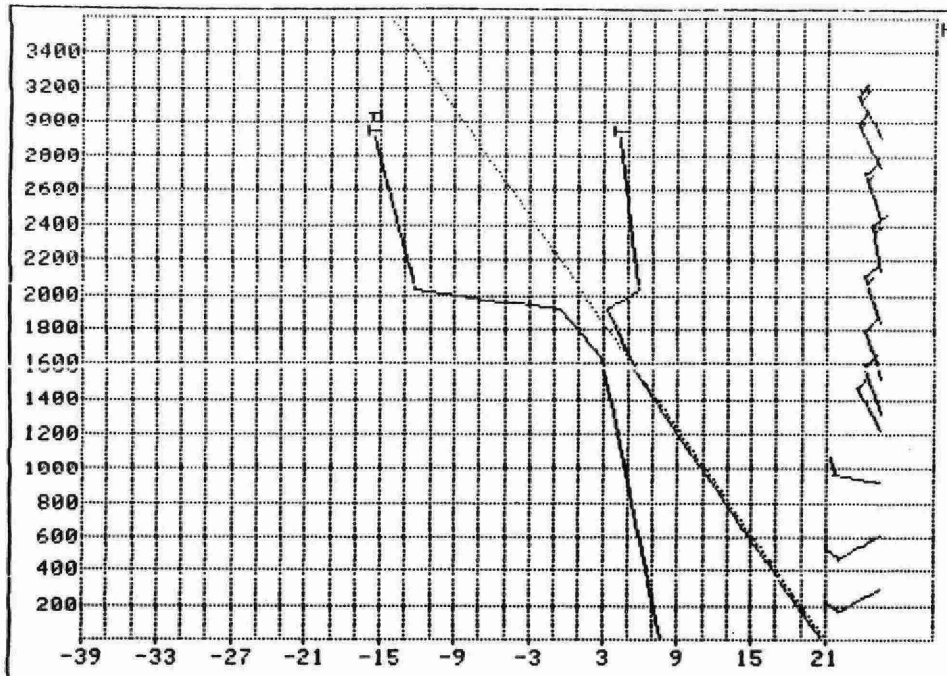
HEIGHT	PRES	TEMP	DEW	WD	WS
2745				245	31
2580	720	3.8	-3.2		
2440				250	30
2135				255	29
1733	799	8.2	7.0		
1525				270	19
1209	850	13.0	6.0	265	19
915				245	21
747	898	15.4	9.4		
506	924	15.2	13.1		
305				205	15
0	981	19.4	15.5	200	12

BUFFALO 84/07/07 0000Z



HEIGHT	PRES	TEMP	DEW	WD	WS
2745				255	35
2440				260	34
2042	769	1.6	-15.4		
1745	798	2.2	-7.8		
1220				230	27
1069	867	5.4	-1.6		
915				240	25
610				255	24
305				280	14
0	987	13.8	5.8	290	10

BUFFALO 84/07/07 1200Z



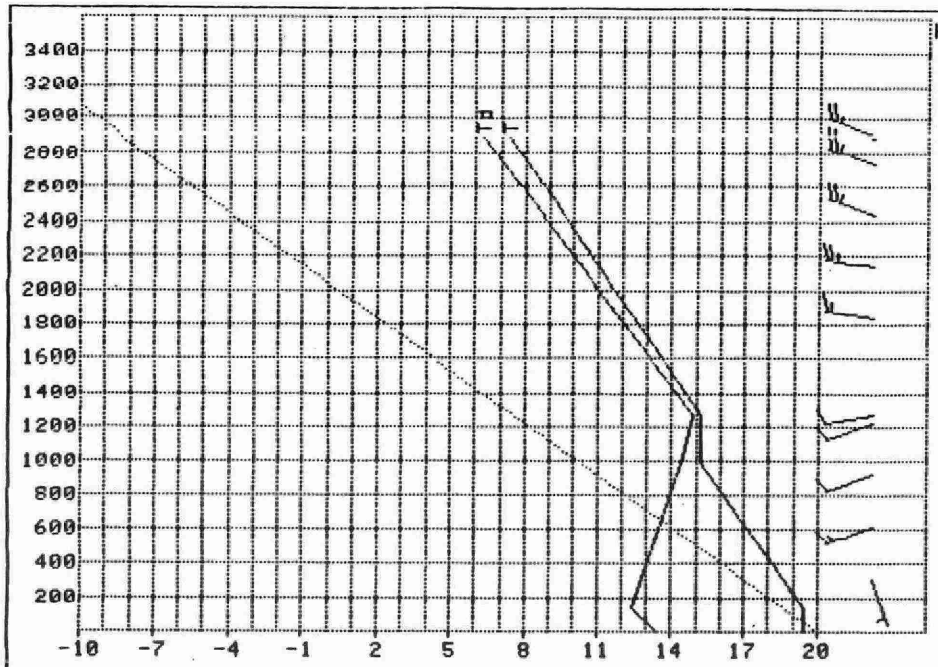
HEIGHT	PRES	TEMP	DEW	WD	WS
2904	700	4.4	-15.6	330	20
2745				330	14
2440				335	13
2033	779	5.8	-12.2		
1830				340	13
1525				335	10
1220				325	8
915				275	0
610				235	10
305				240	11
0	994	20.6	7.6	240	11

BUFFALO 84/07/09 0000Z



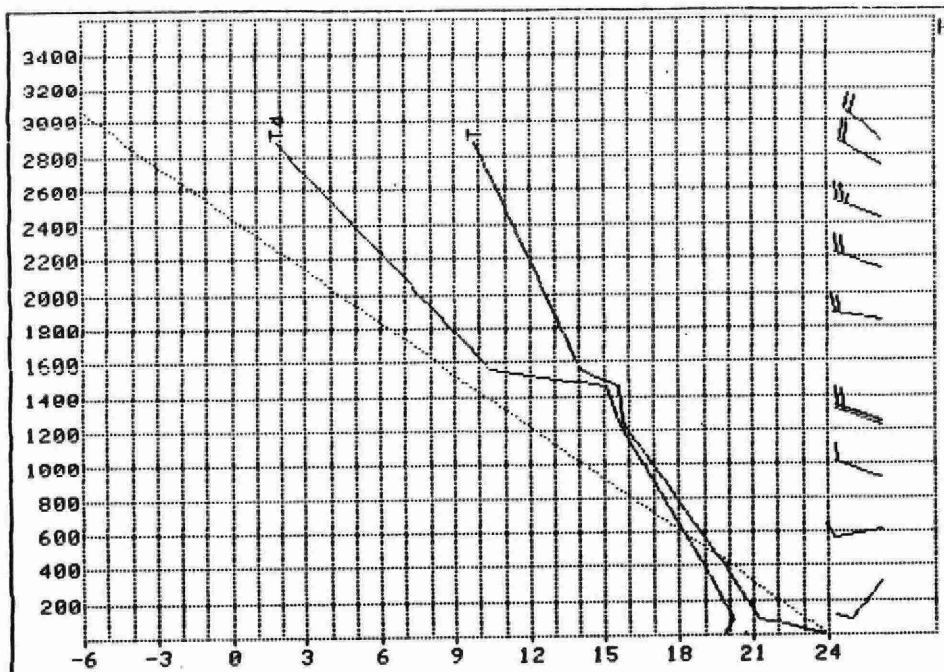
HEIGHT	PRES	TEMP	DEW	WD	WS
2911	700	4.8	-25.2	325	19
2745				320	16
2440				320	12
2135				320	9
1819	800	7.4	-10.6		
1647	817	6.2	.2		
1220				245	7
915				255	9
610				245	11
292	961	16.4	9.4		
170	975	16.0	12.7		
0	995	14.4	9.9	190	5

BUFFALO 84/07/09 1200Z



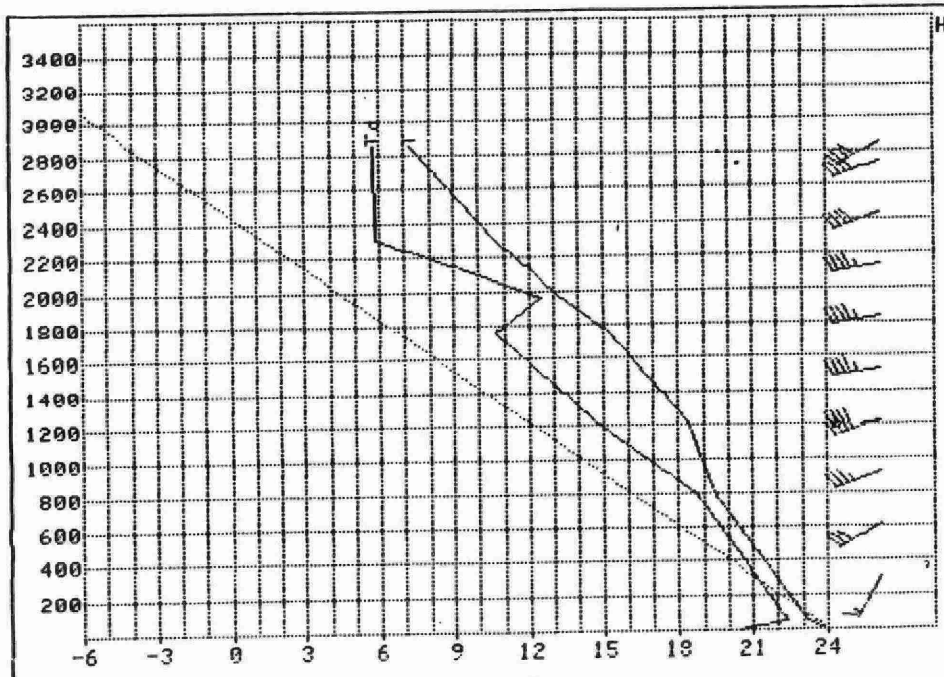
HEIGHT	PRES	TEMP	DEW	WD	WS
2896	700	7.4	6.3	290	25
2745				290	26
2440				285	26
2135				280	23
1830				280	14
1220				250	12
915				250	12
610				250	13
305				155	6
139	971	19.4	12.4		
0	987	19.4	13.4	120	4

BUFFALO 84/07/10 1200Z



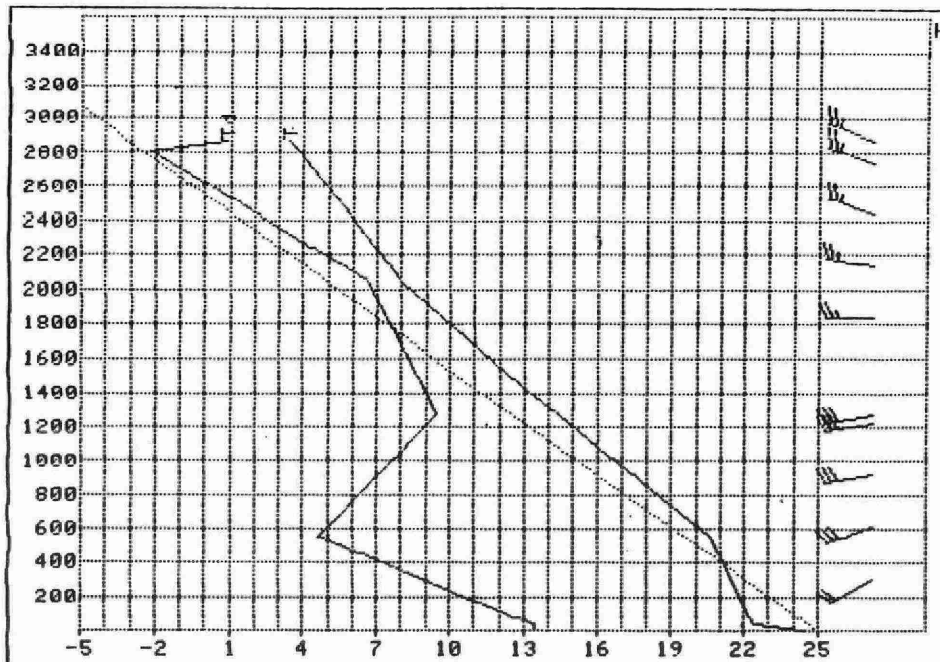
HEIGHT	PRES	TEMP	DEW	WD	WS
2886	700	9.8	1.8	305	20
2745				300	22
2440				290	23
2135				285	21
1830				280	19
1463	830	15.6	15.1		
1220				290	17
915				285	11
610				260	8
305				220	8
0	984	23.8	19.8	210	8

BUFFALO 84/07/11 0000Z



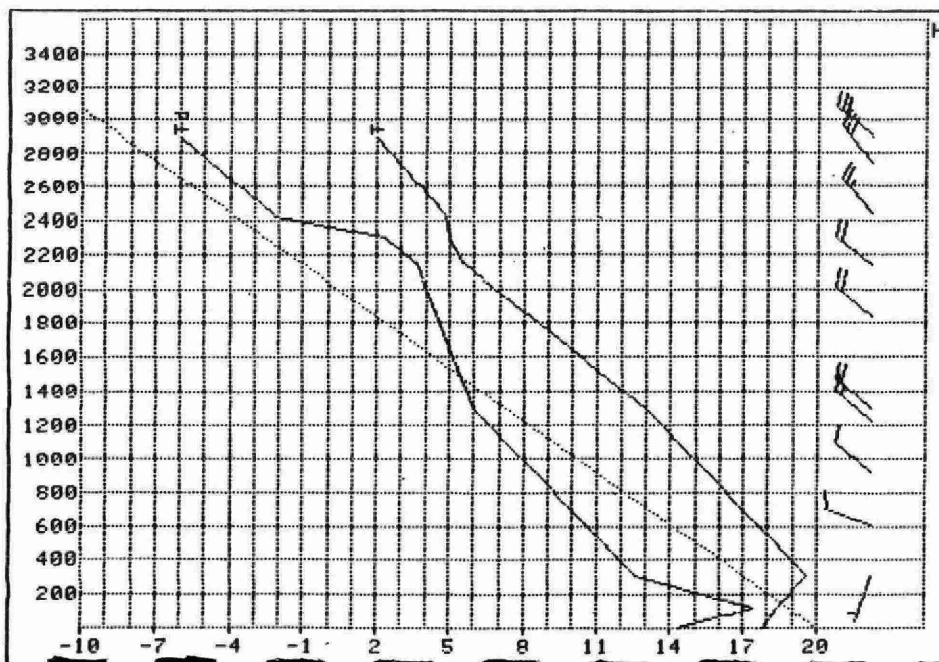
HEIGHT	PRES	TEMP	DEW	WD	WS
2857	700	7.2	5.7	240	41
2745				245	41
2440				250	42
2309	748	10.6	5.8		
2135				255	43
1961	780	13.2	12.6		
1751	800	15.2	10.6		
1525				260	43
1220				250	36
915				245	35
799	893	19.4	18.7		
610				240	29
305				210	14
0	990	23.8	20.4	200	7

BUFFALO 84/07/11 1200Z



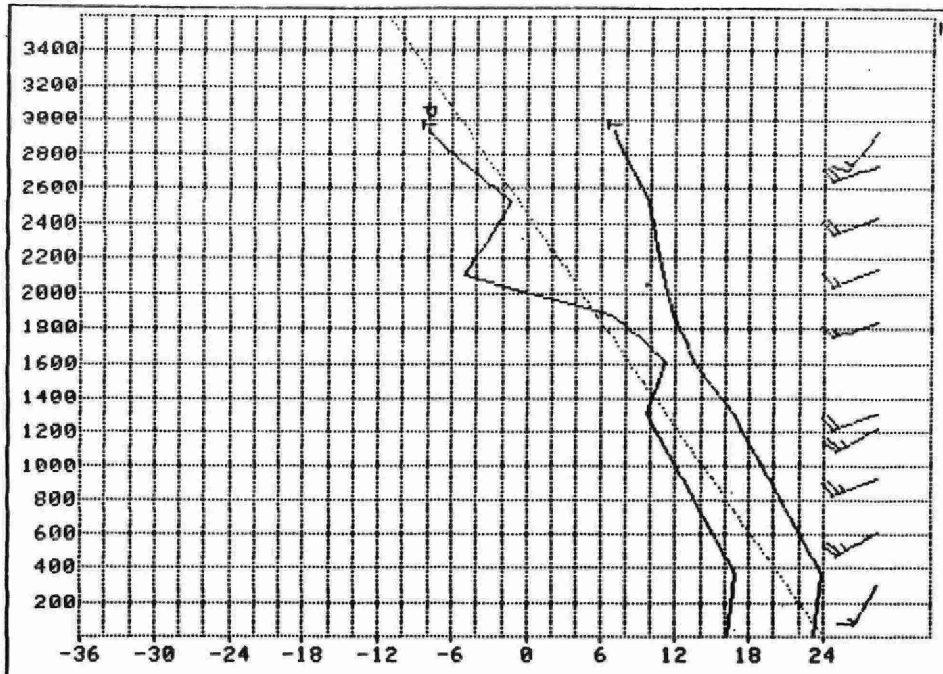
HEIGHT	PRES	TEMP	DEW	WD	WS
2873	700	3.4	.9	285	25
2745				285	25
2440				285	26
2042	775	8.0	6.6		
1830				265	24
1379	840	13.4	9.1		
1220				260	30
915				255	30
666	924	20.6	4.6		
305				240	21
0	986	24.4	13.4	240	17

BUFFALO 84/07/13 0000Z



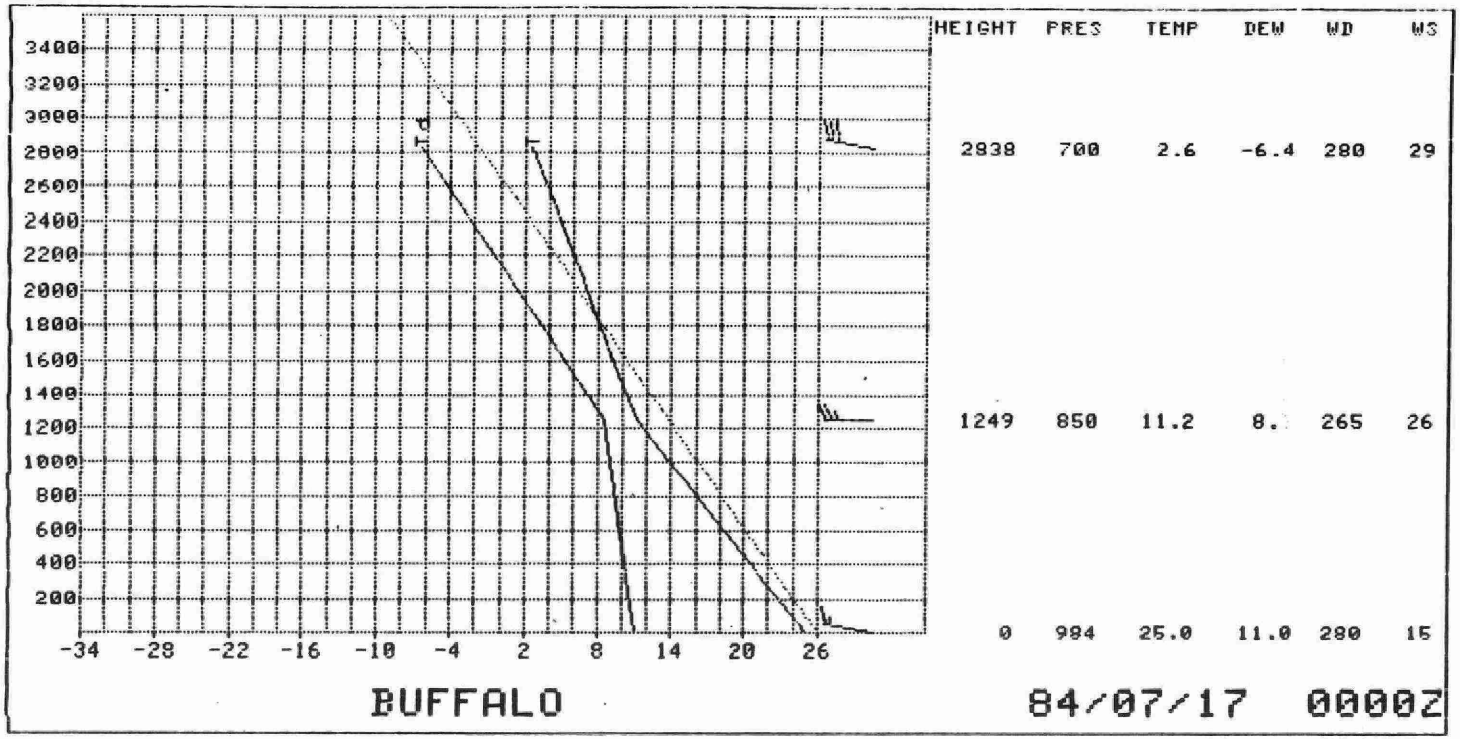
HEIGHT	PRES	TEMP	DEW	WD	WS
2891	700	2.0	-6.0	305	30
2745				315	30
2419	742	4.8	-2.2		
2311	752	5.0	2.3		
2135				310	22
1830				305	21
1220				305	15
915				310	12
610				290	8
305				195	5
112	977	18.4	17.4		
0	990	17.8	14.3	160	5

BUFFALO 84/07/13 1200Z



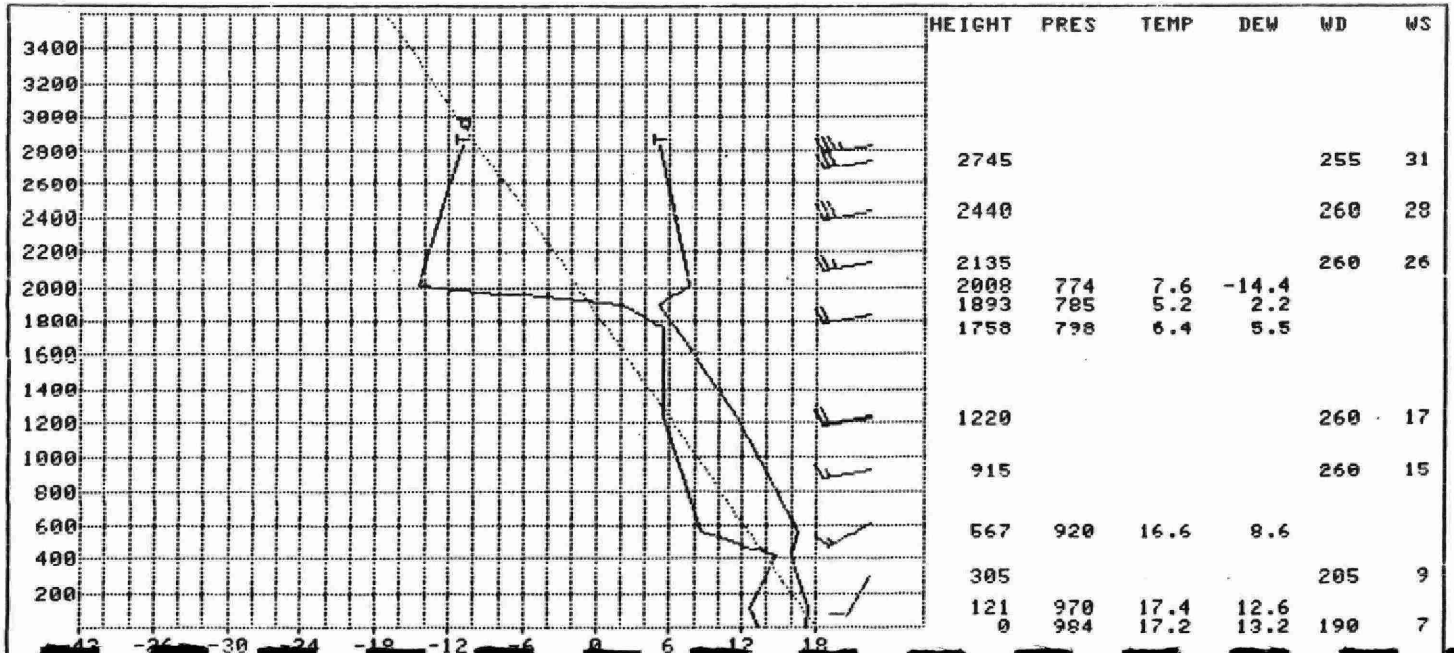
HEIGHT	PRES	TEMP	DEW	WD	WS
2934	700	7.0	-8.0	220	13
2745				245	18
2440				250	18
2093	775	11.0	-5.0		
1830				250	17
1615	821	13.4	11.1		
1220				240	24
915				245	25
610				235	26
305				210	13
0	990	23.2	16.2	200	7

BUFFALO 84/07/15 1200Z



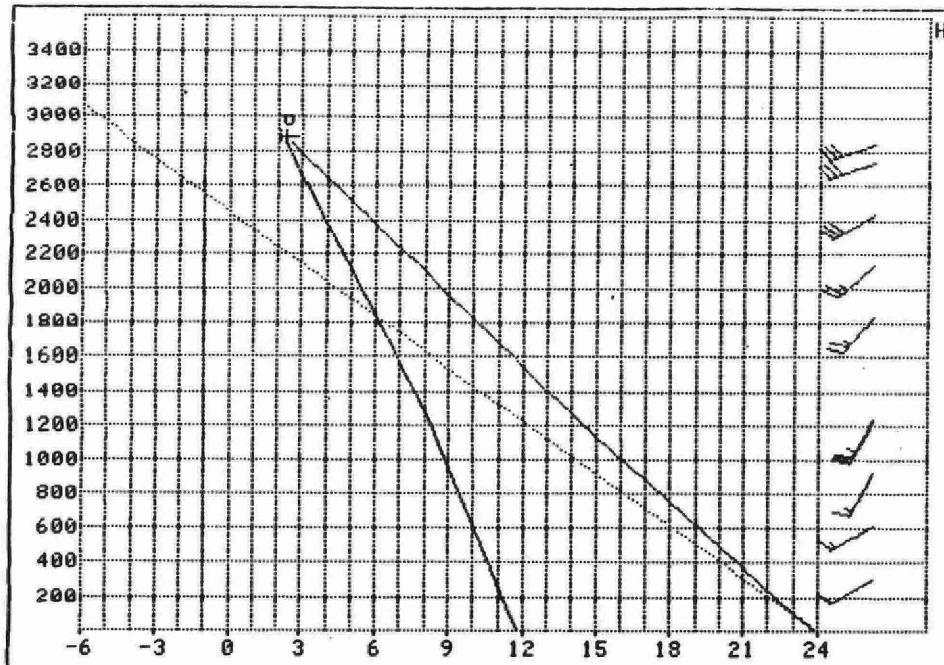
HEIGHT	PRES	TEMP	DEW	WD	WS
2838	700	2.6	-6.4	280	29
1249	850	11.2	8.	265	26
0	984	25.0	11.0	280	15

BUFFALO 84/07/17 0000Z



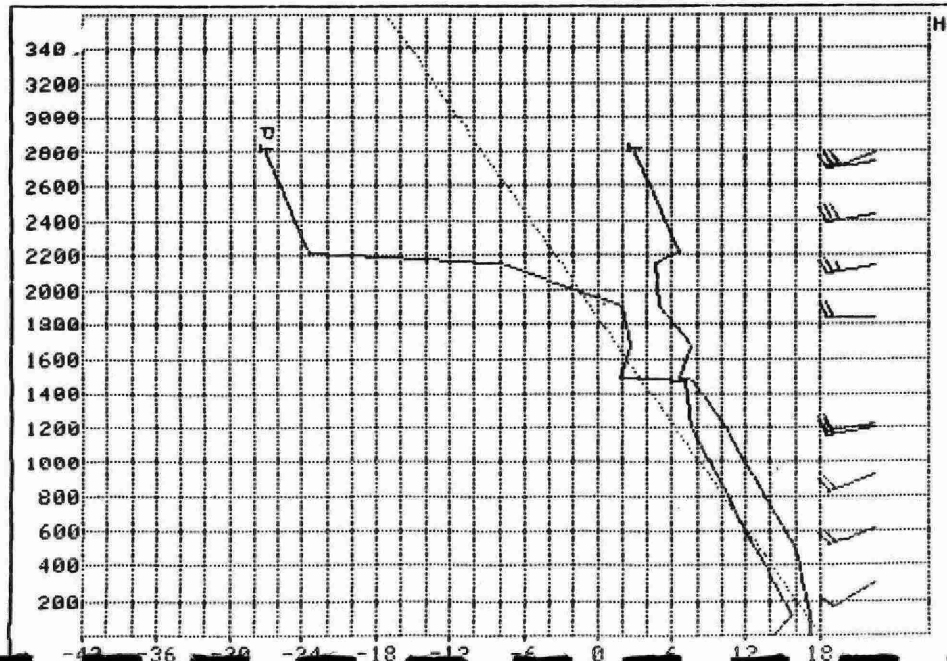
HEIGHT	PRES	TEMP	DEW	WD	WS
2745				255	31
2440				260	28
2135				260	26
2008	774	7.6	-14.4		
1893	785	5.2	2.2		
1758	798	6.4	5.5		
1220				260	17
915				260	15
567	920	16.6	8.6		
305				205	9
121	970	17.4	12.6		
0	984	17.2	13.2	190	7

BUFFALO 84/07/17 1200Z



HEIGHT	PRES	TEMP	DEW	WD	WS
2745				250	29
2440				240	28
2135				225	26
1830				215	26
1220				210	20
915				210	17
610				240	15
305				235	12
0	982	23.8	11.8	230	11

BUFFALO 84/07/18 0000Z



HEIGHT	PRES	TEMP	DEW	WD	WS
2745				255	31
2440				255	31
2135				260	24
1830				265	21
1670	803	7.6	2.6		
1469	823	7.8	7.0		
1196	850	10.4	7.5	260	20
915				250	21
610				245	19
496	924	16.0	12.8		
305				235	11
121	966	17.2	15.7		
0	980	17.2	14.3	230	8

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7. ADDITIONAL METEOROLOGICAL DATA (SOLAR RADIATION, HUMIDITY, PRESSURE, TEMPERATURE AND WIND)

(ALL TIMES ARE EXPRESSED IN LOCAL DAYLIGHT TIME (L.D.T.))

7.A ADDITIONAL METEOROLOGICAL DATA: CAMLACHIE

METEOROLOGICAL PARAMETERS
as monitored by
Mamu#1 at Camlachie and Mamu#2 at Courtright

From the topographical maps, the Camlachie site is located 195 metres above mean sea level (MSL), the Courtright site is located 177 metres above MSL and the magnetic declination for this area is 4 degrees.

Once again, a tabular format is presented for these parameters. Apart from the wind monitoring instruments, all the meteorological analyzers were mounted on the Mamu's at a height of 4 metres above ground level. The wind instruments were mounted atop a 10 metre retactable mast on each Mamu and in addition, at Courtright, wind and temperature recordings were also made from a height of 100m above ground level. The barometric pressure data is referred to MSL whereas the other data pertain to the monitoring site elevation. The wind directions inferr that the winds were blowing FROM that direction. The data presented are one-hour averages and span the monitoring interval for these two survey sites. The units for this monitored data are presented on the last page of the print-outs.

THE INSTRUMENTATION OF MOBILE AIR MONITORING UNIT #1 & #2

Meteorological Instrumentation

Instrument	Manufacturer	Scale
** Wind speed	Lambrecht GmBH	km/hr
** Wind direction	Lambrecht GmBH	degrees
Temperature	Weather Measure (WM) T621	degrees Celsius
Humidity	WM-HM-11P	absolute & %
Barometric pressure	WM-BM70-B242	millibars
Solar Radiation	WM Star Pyranometer	milliwatts/cm2

** These instruments are located on top of a 10 metre retractable tower

SARNIA_84 : 000A

Start: 84/06/21 10:10 Scan: 300 sec
Average: 60.00 min Report: 30.00 min
Loc: Camlachie Coast Guard site .... all acquired data

Time	SolarRad	Temp	Humidity	Barom	Wind-Spd	Wind-Dir
10:10-11:10	-	26.8	45.	1016.0	6.	137.
10:40-11:40	-	24.8	56.	1016.0	9.	15.
11:10-12:10	-	-	-	-	-	-
11:40-12:40	-	-	-	-	-	-
12:10-13:10	-	-	-	-	-	-
12:40-13:40	-	-	-	-	-	-
13:10-14:10	.093	20.5	66.	1014.8	26.	19.
13:40-14:40	.092	20.8	65.	1014.4	28.	23.
14:10-15:10	.090	21.1	64.	1014.1	29.	22.
14:40-15:40	.086	21.4	63.	1014.0	29.	21.
15:10-16:10	.081	21.7	61.	1014.0	28.	21.
15:40-16:40	.075	22.0	60.	1014.0	27.	25.
16:10-17:10	.068	22.1	59.	1013.8	27.	28.
16:40-17:40	.060	22.2	56.	1013.4	26.	30.
17:10-18:10	.052	22.6	53.	1013.0	22.	34.
17:40-18:40	.040	23.0	52.	1012.9	17.	34.
18:10-19:10	.031	22.5	51.	1012.4	20.	41.
18:40-19:40	.027	21.3	53.	1012.0	25.	49.
19:10-20:10	.015	20.1	57.	1012.0	24.	51.
19:40-20:40	.006	19.1	62.	1012.0	21.	50.
20:10-21:10	.003	18.1	68.	1012.0	14.	42.
20:40-21:40	.000	17.0	76.	1012.0	7.	32.
21:10-22:10	.000	16.3	81.	1012.2	4.	29.
21:40-22:40	.000	15.8	83.	1012.6	5.	26.
22:10-23:10	.000	15.4	85.	1013.0	3.	29.
22:40-23:40	.000	14.8	88.	1013.0	1.	29.
23:10-00:10	.000	14.3	91.	1013.0	0.	241.
23:40-00:40	.000	13.9	93.	1013.0	0.	243.
84/06/22						
00:10-01:10	.000	13.6	94.	1013.3	1.	200.
00:40-01:40	.000	13.4	94.	1013.7	2.	203.
01:10-02:10	.000	13.2	94.	1014.0	1.	204.
01:40-02:40	.000	12.7	95.	1013.9	0.	89.
02:10-03:10	.000	12.4	95.	1013.4	1.	110.
02:40-03:40	.000	12.3	95.	1013.0	2.	119.
03:10-04:10	.000	12.1	96.	1013.1	1.	129.
03:40-04:40	.000	12.0	96.	1013.3	0.	129.
04:10-05:10	.000	11.9	96.	1013.7	1.	129.
04:40-05:40	.000	11.8	95.	1013.9	4.	126.
05:10-06:10	.000	12.1	94.	1014.0	8.	124.
05:40-06:40	.002	13.0	91.	1014.0	8.	125.
06:10-07:10	.007	14.4	87.	1014.1	7.	121.
06:40-07:40	.014	17.0	79.	1014.5	8.	115.
07:10-08:10	.022	19.4	69.	1014.8	12.	114.
07:40-08:40	.033	20.7	61.	1014.9	16.	114.
08:10-09:10	.041	21.4	56.	1014.6	19.	114.
08:40-09:40	.050	22.2	53.	1014.2	22.	120.
09:10-10:10	.061	23.2	51.	1014.0	25.	129.
09:40-10:40	.068	24.0	49.	1013.5	27.	130.
10:10-11:10	.072	24.7	47.	1013.0	27.	137.
10:40-11:40	.081	25.4	45.	1012.5	30.	137.

Time	SolarRad	Temp	Humidity	Barom	Wind-Spd	Wind-Dir
:10-12:10	.085	26.0	43.	1012.0	32.	134.
11:40-12:40	.078	26.3	41.	1011.9	30.	141.
12:10-13:10	.084	27.0	39.	1011.4	29.	148.
:40-13:40	.096	28.0	38.	1010.9	27.	148.
:10-14:10	.095	28.3	37.	1010.2	26.	143.
13:40-14:40	.087	28.1	37.	1009.7	27.	138.
:10-15:10	.077	28.1	37.	1009.2	28.	146.
:40-15:40	.071	28.1	34.	1008.7	29.	151.
15:10-16:10	.067	27.9	32.	1008.2	31.	147.
:40-16:40	.058	27.8	30.	1007.6	29.	145.
:10-17:10	.051	27.5	31.	1007.2	25.	144.
16:40-17:40	.051	27.3	33.	1007.0	23.	139.
17:10-18:10	.047	27.3	33.	1006.5	24.	141.
:40-18:40	.033	26.7	32.	1006.0	25.	146.
:10-19:10	.022	25.6	34.	1005.6	21.	145.
18:40-19:40	.015	24.7	38.	1005.1	17.	140.
:10-20:10	.009	23.6	42.	1005.0	13.	131.
:40-20:40	.004	22.5	48.	1005.0	7.	131.
20:10-21:10	.001	21.8	51.	1005.0	6.	114.
20:40-21:40	.000	21.2	52.	1005.0	6.	103.
:10-22:10	.000	20.2	58.	1005.0	5.	107.
21:40-22:40	.000	19.4	62.	1005.0	6.	105.
22:10-23:10	.000	19.4	60.	1005.0	10.	106.
:40-23:40	.000	19.5	59.	1005.0	18.	121.
:10-00:10	.000	19.3	59.	1005.0	26.	130.
23:40-00:40	.000	18.9	58.	1005.0	26.	134.
/06/23						
:10-01:10	.000	18.5	57.	1005.0	22.	137.
00:40-01:40	.000	18.2	57.	1005.0	20.	140.
01:10-02:10	.000	18.0	56.	1005.0	21.	143.
:40-02:40	.000	17.9	56.	1005.0	22.	143.
:10-03:10	.000	17.9	56.	1005.0	25.	140.
02:40-03:40	.000	17.9	55.	1005.0	26.	135.
:10-04:10	.000	17.9	55.	1005.0	25.	132.
:40-04:40	.000	17.7	57.	1005.0	24.	132.
04:10-05:10	.000	17.6	59.	1005.0	22.	131.
04:40-05:40	.000	17.6	60.	1005.0	21.	128.
:10-06:10	.000	17.5	62.	1005.0	19.	124.
:40-06:40	.001	17.6	64.	1005.0	19.	122.
06:10-07:10	.003	17.7	65.	1005.1	23.	129.
:40-07:40	.005	17.7	68.	1005.6	23.	131.
:10-08:10	.016	18.9	67.	1005.8	23.	131.
07:40-08:40	.032	20.9	64.	1005.9	27.	134.
:10-09:10	.042	22.5	62.	1005.8	29.	140.
:40-09:40	.045	23.3	63.	1005.6	30.	142.
09:10-10:10	.050	24.3	63.	1005.2	28.	147.
09:40-10:40	.060	25.4	62.	1005.0	26.	149.
:10-11:10	.068	26.0	61.	1004.9	29.	142.
:40-11:40	.073	26.8	60.	1004.7	30.	146.
11:10-12:10	.077	27.8	59.	1004.3	27.	156.
:40-12:40	.081	28.7	58.	1004.1	28.	158.
:10-13:10	.080	29.3	57.	1004.0	30.	155.
12:40-13:40	.064	29.0	58.	1003.6	32.	154.
13:10-14:10	.043	27.9	61.	1003.1	32.	160.
:40-14:40	.040	27.5	62.	1002.6	30.	160.

Time	SolarRad	Temp	Humidity	Barom	Wind-Spd	Wind-Dir
14:10-15:10	.044	27.7	61.	1002.1	31.	156.
14:40-15:40	.041	27.6	61.	1001.6	30.	161.
15:10-16:10	.033	27.5	61.	1001.1	26.	162.
15:40-16:40	.023	27.0	63.	1000.6	25.	160.
16:10-17:10	.030	26.8	64.	1000.0	27.	171.
16:40-17:40	.036	26.9	64.	999.6	29.	174.
17:10-18:10	.023	26.4	66.	999.1	28.	167.
17:40-18:40	.013	25.8	68.	998.6	24.	163.
18:10-19:10	.008	25.3	69.	998.1	24.	158.
18:40-19:40	.004	24.6	71.	998.0	26.	156.
19:10-20:10	.003	23.9	73.	998.0	30.	157.
19:40-20:40	.003	23.2	75.	998.0	34.	158.
20:10-21:10	.001	22.4	78.	998.0	34.	158.
20:40-21:40	.000	21.2	86.	997.9	29.	159.
21:10-22:10	.000	20.1	94.	997.8	21.	166.
21:40-22:40	.000	19.9	97.	997.8	19.	178.
22:10-23:10	.000	19.8	98.	997.8	19.	164.
22:40-23:40	.000	19.8	98.	997.8	16.	148.
23:10-00:10	.000	19.8	98.	997.8	15.	163.
23:40-00:40	.000	19.5	98.	997.5	13.	187.
84/06/24						
00:10-01:10	.000	19.1	97.	997.1	10.	207.
00:40-01:40	.000	19.1	96.	997.3	8.	215.
01:10-02:10	.000	19.2	97.	997.6	7.	206.
01:40-02:40	.000	19.4	98.	997.3	6.	211.
02:10-03:10	.000	19.5	98.	997.1	5.	236.
02:40-03:40	.000	19.6	97.	997.3	7.	248.
03:10-04:10	.000	19.8	97.	997.3	10.	255.
03:40-04:40	.000	19.8	97.	997.0	9.	263.
04:10-05:10	.000	19.6	96.	997.0	8.	260.
04:40-05:40	.000	19.4	95.	997.1	10.	254.
05:10-06:10	.000	19.2	94.	997.5	13.	260.
05:40-06:40	.000	19.0	93.	998.0	15.	261.
06:10-07:10	.003	18.9	92.	998.1	15.	256.
06:40-07:40	.004	18.8	91.	998.5	14.	258.
07:10-08:10	.003	18.9	91.	999.0	13.	261.
07:40-08:40	.005	19.2	89.	999.0	13.	267.
08:10-09:10	.019	20.1	85.	999.1	16.	272.
08:40-09:40	.042	21.8	79.	999.3	16.	276.
09:10-10:10	.056	23.3	73.	999.7	16.	288.
09:40-10:40	.066	24.3	68.	1000.0	15.	296.
10:10-11:10	.068	24.9	65.	1000.0	13.	302.
10:40-11:40	.074	25.4	62.	1000.0	13.	304.
11:10-12:10	.086	25.8	60.	1000.0	14.	299.
11:40-12:40	-	-	-	-	-	-
12:10-13:10	-	-	-	-	-	-
12:40-13:40	-	-	-	-	-	-
13:10-14:10	.093	25.9	51.	1000.0	18.	295.
13:40-14:40	.094	25.8	49.	1000.0	18.	301.
14:10-15:10	.092	25.5	47.	1000.0	17.	305.
14:40-15:40	.090	25.6	46.	1000.0	16.	310.
15:10-16:10	.085	25.9	45.	1000.0	14.	308.
15:40-16:40	.075	25.8	44.	1000.0	13.	305.
16:10-17:10	.059	25.3	43.	1000.0	12.	304.
16:40-17:40	.047	24.9	44.	1000.0	10.	302.

Time	SolarRad	Temp	Humidity	Baron	Wind-Spd	Wind-Dir
[redacted]						
[redacted]:10-18:10	.042	24.6	44.	999.9	10.	300.
17:40-18:40	.033	24.1	44.	999.5	11.	297.
[redacted]:10-19:10	.027	23.9	43.	999.1	12.	292.
[redacted]:40-19:40	.021	23.5	44.	999.2	11.	290.
19:10-20:10	.008	22.2	45.	999.6	11.	287.
[redacted]:40-20:40	.001	21.3	46.	1000.0	13.	281.
[redacted]:10-21:10	.001	20.3	49.	1000.3	16.	272.
20:40-21:40	.001	18.5	56.	1000.8	13.	262.
21:10-22:10	.000	17.1	62.	1001.4	5.	272.
[redacted]:40-22:40	.000	16.4	69.	1002.1	3.	9.
[redacted]:10-23:10	.000	15.5	78.	1002.7	1.	43.
22:40-23:40	.000	14.8	83.	1003.0	1.	207.
[redacted]:10-00:10	.000	14.6	83.	1003.0	0.	210.
[redacted]:40-00:40	.000	14.3	84.	1003.4	0.	298.
84/06/25						
[redacted]:10-01:10	.000	13.8	85.	1003.9	0.	293.
[redacted]:40-01:40	.000	13.7	84.	1004.0	1.	291.
[redacted]:10-02:10	.000	13.6	86.	1004.0	1.	291.
01:40-02:40	.000	13.7	87.	1004.0	1.	290.
[redacted]:10-03:10	.000	13.4	90.	1004.0	0.	286.
[redacted]:40-03:40	.000	13.0	91.	1004.1	1.	282.
03:10-04:10	.000	12.7	91.	1004.6	0.	239.
[redacted]:40-04:40	.000	12.5	90.	1005.0	0.	254.
[redacted]:10-05:10	.000	12.2	91.	1005.0	1.	258.
[redacted]:40-05:40	.000	12.3	90.	1005.2	1.	275.
[redacted]:10-06:10	.000	13.2	88.	1005.6	1.	289.
[redacted]:40-06:40	.002	13.9	86.	1005.9	1.	296.
[redacted]:10-07:10	.006	14.8	83.	1006.0	3.	297.
06:40-07:40	.011	15.9	78.	1006.0	4.	299.
[redacted]:10-08:10	.019	17.0	74.	1006.1	3.	298.
[redacted]:40-08:40	.030	18.8	69.	1006.5	3.	300.
08:10-09:10	.042	20.0	63.	1006.0	2.	301.
[redacted]:40-09:40	.053	22.4	58.	1006.4	2.	303.
[redacted]:10-10:10	.058	23.0	54.	1006.1	2.	312.
[redacted]:40-10:40	.063	22.8	53.	1006.1	4.	310.
10:10-11:10	.072	22.7	53.	1006.0	5.	320.
[redacted]:40-11:40	.082	22.0	56.	1006.0	8.	343.
[redacted]:10-12:10	.089	21.1	58.	1006.0	13.	349.
11:40-12:40	.089	21.4	57.	1006.0	13.	347.
[redacted]:10-13:10	.086	21.9	55.	1006.0	11.	340.
[redacted]:40-13:40	.088	22.0	53.	1006.0	14.	342.
13:10-14:10	.079	21.2	54.	1006.0	21.	353.
13:40-14:40	.076	20.3	58.	1006.0	27.	12.
[redacted]:10-15:10	.082	20.1	60.	1006.0	28.	28.
[redacted]:40-15:40	.078	20.3	58.	1005.6	26.	31.
15:10-16:10	.071	20.0	57.	1005.1	27.	31.
[redacted]:40-16:40	.060	19.8	56.	1005.0	22.	34.
[redacted]:10-17:10	.061	20.0	53.	1004.8	13.	34.
16:40-17:40	.062	21.1	51.	1004.5	11.	23.
17:10-18:10	.054	20.5	54.	1004.3	15.	21.
[redacted]:40-18:40	.040	19.9	56.	1004.3	18.	23.
[redacted]:10-19:10	.031	19.4	58.	1004.7	18.	23.
18:40-19:40	.027	19.0	59.	1004.9	15.	27.
[redacted]:10-20:10	.014	18.0	64.	1004.9	13.	30.
[redacted]:40-20:40	.005	16.9	69.	1005.0	12.	31.

[redacted]

[redacted]

Time -	SolarRad	Temp	Humidity	Barom	Wind-Spd	Wind-Dir
20:10-21:10	.002	15.7	75.	1005.0	9.	35.
20:40-21:40	.000	14.5	81.	1005.0	6.	37.
21:10-22:10	.000	13.7	84.	1005.4	2.	40.
21:40-22:40	.000	13.1	86.	1005.9	2.	32.
22:10-23:10	.000	12.6	86.	1006.0	3.	38.
22:40-23:40	.000	12.3	87.	1006.0	2.	44.
23:10-00:10	.000	12.1	88.	1006.4	1.	59.
23:40-00:40	.000	11.7	90.	1006.8	1.	60.
84/06/26						
00:10-01:10	.000	11.5	89.	1006.9	1.	80.
00:40-01:40	.000	11.3	89.	1007.0	1.	91.
01:10-02:10	.000	10.8	92.	1007.0	0.	118.
01:40-02:40	.000	10.3	93.	1007.0	0.	358.
02:10-03:10	.000	9.8	95.	1007.0	0.	27.
02:40-03:40	.000	9.6	96.	1007.0	0.	27.
03:10-04:10	.000	9.4	96.	1007.0	0.	25.
03:40-04:40	.000	9.2	96.	1007.0	0.	4.
04:10-05:10	.000	9.0	95.	1007.0	0.	358.
04:40-05:40	.000	8.8	95.	1007.0	0.	132.
05:10-06:10	.000	8.8	95.	1007.0	0.	155.
05:40-06:40	.002	10.0	91.	1007.4	0.	161.
06:10-07:10	.007	11.7	87.	1007.9	1.	184.
06:40-07:40	.013	14.0	81.	1008.0	3.	186.
07:10-08:10	.023	16.9	72.	1008.0	3.	183.
07:40-08:40	.034	18.4	68.	1008.0	5.	185.
08:10-09:10	.043	18.7	67.	1008.0	6.	202.
08:40-09:40	-	-	-	-	-	-
09:10-10:10	-	-	-	-	-	-
09:40-10:40	-	-	-	-	-	-
10:10-11:10	-	-	-	-	-	-
10:40-11:40	-	-	-	-	-	-
11:10-12:10	-	-	-	-	-	-
11:40-12:40	-	-	-	-	-	-
12:10-13:10	.092	24.9	46.	1006.1	11.	234.
12:40-13:40	.093	25.4	44.	1005.7	13.	224.
13:10-14:10	.092	25.8	43.	1004.5	13.	217.
13:40-14:40	-	-	-	-	-	-
14:10-15:10	-	-	-	-	-	-
14:40-15:40	-	-	-	-	-	-
15:10-16:10	-	-	-	-	-	-
15:40-16:40	-	-	-	-	-	-
16:10-17:10	-	-	-	-	-	-
16:40-17:40	-	-	-	-	-	-
17:10-18:10	-	-	-	-	-	-
17:40-18:40	.037	24.9	38.	999.4	28.	206.
18:10-19:10	.026	24.5	39.	998.8	27.	200.
18:40-19:40	.023	24.1	40.	998.3	25.	197.
19:10-20:10	.019	23.9	41.	998.0	25.	193.
19:40-20:40	.006	22.8	43.	997.5	27.	185.
20:10-21:10	.002	21.5	45.	997.0	26.	179.
20:40-21:40	.000	20.6	48.	997.1	25.	179.
21:10-22:10	.000	19.9	49.	997.3	27.	179.
21:40-22:40	.000	19.4	49.	997.7	29.	180.
22:10-23:10	.000	18.8	51.	997.7	30.	179.
22:40-23:40	.000	18.4	53.	997.6	30.	178.

Time	SolarRad	Temp	Humidity	Barom	Wind-Spd	Wind-Dir
[redacted]						
[redacted]10-00:10	.000	18.4	56.	997.8	28.	177.
23:40-00:40	.000	18.7	58.	997.8	28.	178.
[redacted]06/27						
[redacted]10-01:10	.000	18.4	65.	997.3	32.	179.
00:40-01:40	.000	17.9	74.	996.7	31.	175.
[redacted]10-02:10	.000	18.2	74.	996.3	32.	172.
[redacted]40-02:40	.000	18.6	70.	996.0	32.	175.
[redacted]10-03:10	.000	18.8	71.	996.0	29.	183.
02:40-03:40	.000	19.1	73.	995.6	27.	191.
[redacted]10-04:10	.000	19.5	75.	995.1	26.	197.
[redacted]40-04:40	.000	19.8	75.	995.0	26.	200.
04:10-05:10	.000	19.9	76.	995.0	27.	200.
[redacted]40-05:40	.000	19.8	77.	994.5	27.	198.
[redacted]10-06:10	.000	19.9	76.	994.1	26.	201.
05:40-06:40	.000	20.1	76.	994.1	24.	208.
06:10-07:10	.001	19.9	79.	994.0	26.	210.
[redacted]40-07:40	.001	19.3	85.	994.0	30.	209.
[redacted]10-08:10	.002	18.6	92.	994.0	31.	209.
07:40-08:40	.004	18.6	95.	994.0	29.	209.
[redacted]10-09:10	.005	18.8	95.	994.2	29.	211.
[redacted]40-09:40	.007	19.0	94.	994.4	29.	213.
09:10-10:10	.011	19.6	91.	994.2	33.	214.
[redacted]40-10:40	.021	20.5	87.	994.0	35.	217.
[redacted]10-11:10	.053	21.8	82.	994.0	38.	222.
10:40-11:40	.054	22.5	79.	993.9	40.	228.
11:10-12:10	.030	21.6	82.	993.9	31.	236.
[redacted]40-12:40	.053	22.3	78.	994.0	21.	249.
[redacted]10-13:10	.082	25.1	64.	994.0	21.	269.
12:40-13:40	-	-	-	-	-	-
[redacted]10-14:10	-	-	-	-	-	-
[redacted]40-14:40	-	-	-	-	-	-
14:10-15:10	-	-	-	-	-	-
14:40-15:40	-	-	-	-	-	-
[redacted]10-16:10	-	-	-	-	-	-
[redacted]40-16:40	-	-	-	-	-	-
16:10-17:10	-	-	-	-	-	-
[redacted]40-17:40	-	-	-	-	-	-
[redacted]10-18:10	.012	22.1	53.	996.3	25.	281.
17:40-18:40	.006	21.5	55.	996.7	20.	285.
[redacted]10-19:10	.007	21.4	55.	997.1	18.	283.
[redacted]40-19:40	.006	21.1	57.	997.6	19.	282.
[redacted]10-20:10	.008	21.0	58.	998.3	23.	283.
19:40-20:40	.007	20.7	59.	998.8	20.	283.
[redacted]10-21:10	.002	19.9	62.	999.2	15.	280.
[redacted]40-21:40	.000	19.3	66.	999.7	12.	273.
21:10-22:10	.000	19.1	68.	1000.0	10.	273.
[redacted]40-22:40	.000	18.9	69.	1000.5	9.	272.
[redacted]10-23:10	.000	18.6	71.	1001.0	8.	276.
22:40-23:40	.000	18.3	73.	1001.1	6.	292.
23:10-00:10	.000	17.8	77.	1001.6	6.	295.
[redacted]40-00:40	.000	17.3	79.	1002.1	8.	288.
[redacted]06/28						
00:10-01:10	.000	16.9	80.	1002.5	5.	282.
[redacted]40-01:40	.000	16.5	81.	1003.0	2.	255.
[redacted]10-02:10	.000	15.9	84.	1003.2	4.	228.

[redacted]

[redacted]

Time	SolarRad	Temp	Humidity	Baroa	Wind-Spd	Wind-Dir
01:40-02:40	.000	15.4	86.	1003.7	5.	231.
02:10-03:10	.000	15.1	87.	1004.0	5.	239.
02:40-03:40	.000	14.8	88.	1004.5	5.	241.
03:10-04:10	.000	14.6	89.	1005.0	3.	248.
03:40-04:40	.000	14.7	89.	1005.1	3.	266.
04:10-05:10	.000	15.3	87.	1005.6	6.	287.
04:40-05:40	.000	15.5	86.	1006.0	6.	293.
05:10-06:10	.000	15.1	87.	1006.0	4.	289.
05:40-06:40	.002	14.9	88.	1006.5	2.	285.
06:10-07:10	.007	15.2	87.	1007.0	1.	240.
06:40-07:40	.012	16.1	85.	1007.0	2.	238.
07:10-08:10	.020	18.0	79.	1007.0	2.	243.
07:40-08:40	.032	20.6	71.	1007.0	2.	263.
08:10-09:10	.042	22.7	68.	1007.0	3.	293.
08:40-09:40	.051	23.6	53.	1007.0	4.	293.
09:10-10:10	.059	23.9	51.	1007.0	2.	290.
09:40-10:40	.067	24.0	53.	1007.0	2.	248.
10:10-11:10	.074	24.6	54.	1007.0	3.	252.
10:40-11:40	-	-	-	-	-	-
11:10-12:10	-	-	-	-	-	-
11:40-12:40	-	-	-	-	-	-
12:10-13:10	-	-	-	-	-	-
12:40-13:40	.094	27.5	42.	1015.4	11.	303.
13:10-14:10	.092	27.8	42.	1015.3	8.	315.
13:40-14:40	.090	27.9	41.	1015.0	7.	322.
14:10-15:10	.086	27.9	41.	1014.7	6.	329.
14:40-15:40	.080	27.6	42.	1013.9	6.	334.
15:10-16:10	.077	26.9	43.	1013.2	10.	346.
15:40-16:40	.075	26.1	45.	1013.0	15.	354.
16:10-17:10	.069	25.2	46.	1012.8	18.	4.
16:40-17:40	.063	24.8	47.	1012.3	20.	17.
17:10-18:10	.053	24.6	47.	1012.0	20.	24.
17:40-18:40	.039	24.5	47.	1012.0	18.	29.
18:10-19:10	.030	24.3	47.	1012.0	17.	34.
18:40-19:40	.023	23.6	49.	1012.0	15.	37.
19:10-20:10	.011	22.3	53.	1012.1	11.	42.
19:40-20:40	.005	21.1	59.	1012.6	6.	46.
20:10-21:10	.002	20.2	63.	1013.0	4.	56.
20:40-21:40	.000	19.4	63.	1013.3	2.	65.
21:10-22:10	.000	18.3	67.	1013.8	3.	33.
21:40-22:40	.000	17.5	72.	1014.4	16.	25.
22:10-23:10	.000	16.7	80.	1015.2	22.	30.
22:40-23:40	.000	15.7	85.	1015.7	14.	37.
23:10-00:10	.000	15.3	86.	1016.0	9.	37.
23:40-00:40	.000	15.1	85.	1016.1	9.	48.
84/06/29						
00:10-01:10	.000	15.0	82.	1016.5	10.	50.
00:40-01:40	.000	14.8	82.	1016.9	7.	60.
01:10-02:10	.000	14.5	83.	1017.0	5.	56.
01:40-02:40	.000	14.2	84.	1017.0	3.	43.
02:10-03:10	.000	13.9	84.	1017.0	3.	39.
02:40-03:40	.000	13.1	86.	1017.0	3.	41.
03:10-04:10	.000	12.5	89.	1017.0	1.	44.
03:40-04:40	.000	12.4	88.	1017.0	2.	55.
04:10-05:10	.000	12.4	87.	1017.0	2.	51.

[redacted]e	SolarRad	Temp	Humidity	Barom	Wind-Spd	Wind-Dir
04:40-05:40	.000	12.0	89.	1017.1	1.	36.
05:10-06:10	.000	11.8	91.	1017.5	1.	39.
[redacted]40-06:40	.002	12.7	89.	1018.0	3.	50.
06:10-07:10	.008	14.2	85.	1018.0	9.	50.
06:40-07:40	.014	16.0	80.	1018.5	11.	54.
[redacted]10-08:10	.023	17.7	74.	1019.5	14.	49.
[redacted]40-08:40	.033	18.0	72.	1019.9	22.	38.
08:10-09:10	-	-	-	-	-	-
[redacted]40-09:40	-	-	-	-	-	-
[redacted]10-10:10	-	-	-	-	-	-
09:40-10:40	-	-	-	-	-	-
10:10-11:10	-	-	-	-	-	-
[redacted]40-11:40	-	-	-	-	-	-
11:10-12:10	-	-	-	-	-	-
11:40-12:40	.073	18.5	70.	1020.9	24.	14.
[redacted]10-13:10	.058	18.3	70.	1021.0	24.	13.
[redacted]40-13:40	.063	18.3	70.	1020.9	25.	14.
13:10-14:10	.059	18.1	71.	1020.9	27.	17.
[redacted]40-14:40	.054	17.8	73.	1021.0	27.	17.
[redacted]10-15:10	.056	17.6	74.	1020.9	30.	17.
14:40-15:40	.049	17.2	75.	1020.9	31.	19.
15:10-16:10	.043	16.9	75.	1021.0	27.	15.
[redacted]40-16:40	.040	16.9	75.	1020.9	25.	13.
[redacted]10-17:10	.033	16.6	75.	1020.9	26.	12.
16:40-17:40	.029	16.2	77.	1020.6	27.	10.
[redacted]10-18:10	.026	16.0	77.	1020.6	27.	13.
[redacted]40-18:40	.023	15.9	77.	1020.9	28.	14.
18:10-19:10	.019	15.7	76.	1020.9	29.	13.
18:40-19:40	.014	15.4	76.	1020.9	27.	13.
[redacted]10-20:10	.009	15.0	77.	1020.9	26.	13.
[redacted]40-20:40	.004	14.5	77.	1021.0	22.	12.
20:10-21:10	.001	14.3	77.	1021.0	19.	10.
[redacted]40-21:40	.000	14.3	77.	1021.0	19.	11.
[redacted]10-22:10	.000	14.3	77.	1021.4	19.	14.
21:40-22:40	.000	14.3	77.	1021.9	21.	16.
22:10-23:10	.000	14.2	77.	1021.8	24.	13.
[redacted]40-23:40	.000	14.0	79.	1021.8	23.	12.
23:10-00:10	.000	13.9	80.	1021.9	22.	18.
23:40-00:40	.000	14.2	82.	1021.9	23.	23.
[redacted]06/30						
[redacted]10-01:10	.000	14.3	83.	1021.9	21.	22.
00:40-01:40	.000	14.5	83.	1021.9	21.	20.
[redacted]10-02:10	.000	14.8	84.	1021.5	24.	19.
[redacted]40-02:40	.000	15.0	84.	1021.1	26.	18.
02:10-03:10	.000	15.0	84.	1021.0	28.	21.
02:40-03:40	.000	14.7	85.	1021.0	28.	21.
[redacted]10-04:10	.000	14.5	86.	1021.0	25.	19.
[redacted]40-04:40	.000	14.2	88.	1020.9	20.	21.
04:10-05:10	.000	13.6	91.	1020.9	13.	26.
[redacted]40-05:40	.000	13.3	92.	1021.0	10.	23.
[redacted]10-06:10	.000	13.3	93.	1021.0	8.	26.
05:40-06:40	.002	13.7	91.	1021.0	5.	31.
[redacted]10-07:10	.007	14.6	87.	1021.0	9.	25.
[redacted]40-07:40	.013	15.8	83.	1021.0	15.	26.
07:10-08:10	.017	16.6	80.	1021.2	14.	27.

Time	SolarRad	Temp	Humidity	Barom	Wind-Spd	Wind-Dir
07:40-08:40	.028	17.1	79.	1021.6	16.	19.
08:10-09:10	.041	17.7	78.	1021.9	19.	14.
08:40-09:40	.051	17.9	77.	1022.0	22.	12.
09:10-10:10	.058	18.0	77.	1022.0	25.	9.
09:40-10:40	.060	17.9	79.	1022.0	27.	9.
10:10-11:10	.061	17.9	80.	1022.0	27.	7.
10:40-11:40	.053	17.5	82.	1022.0	28.	5.
11:10-12:10	.044	16.7	85.	1022.0	31.	4.
11:40-12:40	.050	16.8	85.	1022.0	34.	2.
12:10-13:10	.059	17.3	84.	1021.7	35.	360.
12:40-13:40	.073	17.9	82.	1021.2	35.	357.
13:10-14:10	.087	18.5	81.	1021.0	34.	355.
13:40-14:40	.092	18.8	80.	1021.0	34.	356.
14:10-15:10	.090	19.1	78.	1020.9	32.	1.
14:40-15:40	.085	19.2	78.	1020.5	33.	1.
15:10-16:10	.081	19.3	77.	1020.1	34.	1.
15:40-16:40	.076	19.5	76.	1020.0	34.	6.
16:10-17:10	.070	19.5	75.	1020.0	35.	6.
16:40-17:40	.060	19.3	75.	1020.0	35.	3.
17:10-18:10	.050	19.2	76.	1020.0	33.	3.
17:40-18:40	.041	19.1	77.	1019.9	30.	0.
18:10-19:10	.032	18.8	78.	1019.7	29.	359.
18:40-19:40	.025	18.4	79.	1019.5	27.	1.
19:10-20:10	.015	17.7	81.	1019.7	26.	3.
19:40-20:40	.007	17.2	83.	1019.6	23.	7.
20:10-21:10	.003	16.9	85.	1019.4	19.	10.
20:40-21:40	.000	16.3	87.	1019.4	16.	12.
21:10-22:10	.000	15.9	88.	1019.7	15.	13.
21:40-22:40	.000	15.7	89.	1019.9	14.	11.
22:10-23:10	.000	15.5	89.	1020.0	15.	10.
22:40-23:40	.000	15.5	89.	1020.0	16.	10.
23:10-00:10	.000	15.6	89.	1020.0	17.	11.
23:40-00:40	.000	15.5	89.	1020.1	15.	12.
84/07/01						
00:10-01:10	.000	15.3	90.	1020.1	14.	8.
00:40-01:40	.000	15.2	91.	1020.1	15.	10.
01:10-02:10	.000	15.2	92.	1020.1	15.	16.
01:40-02:40	.000	15.2	92.	1020.1	14.	16.
02:10-03:10	.000	15.2	92.	1020.1	11.	14.
02:40-03:40	.000	15.1	92.	1020.1	7.	10.
03:10-04:10	.000	15.0	91.	1020.1	6.	356.
03:40-04:40	.000	14.7	92.	1020.0	6.	353.
04:10-05:10	.000	14.6	92.	1020.3	4.	353.
04:40-05:40	.000	14.6	92.	1020.7	6.	353.
05:10-06:10	.000	14.6	91.	1020.8	8.	356.
05:40-06:40	.002	15.2	89.	1020.8	6.	356.
06:10-07:10	.008	16.3	86.	1020.9	3.	354.
06:40-07:40	.014	18.2	81.	1021.0	2.	358.
07:10-08:10	.023	19.6	76.	1021.0	5.	349.
07:40-08:40	.033	20.5	75.	1021.1	6.	344.
08:10-09:10	.042	21.6	72.	1021.5	5.	343.
08:40-09:40	.052	21.5	71.	1021.9	8.	344.
09:10-10:10	.060	20.8	73.	1022.0	14.	348.
09:40-10:40	.069	20.6	74.	1022.0	19.	353.
10:10-11:10	.074	20.6	73.	1022.0	21.	356.

Time	SolarRad	Temp	Humidity	Barom	Wind-Spd	Wind-Dir
[redacted]:40-11:40	.078	20.6	73.	1022.0	21.	353.
11:10-12:10	.086	20.8	73.	1022.0	20.	352.
[redacted]:40-12:40	.085	21.0	73.	1022.0	18.	354.
[redacted]:10-13:10	.083	21.1	72.	1022.0	17.	350.
12:40-13:40	.090	21.8	70.	1021.9	14.	347.
13:10-14:10	.087	22.1	68.	1021.5	14.	350.
[redacted]:40-14:40	.083	21.6	68.	1021.1	20.	352.
[redacted]:10-15:10	.087	22.1	66.	1021.0	24.	354.
14:40-15:40	.086	22.6	64.	1020.7	23.	355.
[redacted]:10-16:10	.082	22.8	63.	1020.3	22.	357.
[redacted]:40-16:40	.076	22.9	63.	1020.1	23.	0.
16:10-17:10	.069	22.6	64.	1020.0	24.	3.
[redacted]:40-17:40	.061	22.1	65.	1020.0	24.	4.
[redacted]:10-18:10	.053	21.8	65.	1020.0	24.	6.
17:40-18:40	.039	21.8	65.	1019.9	23.	15.
18:10-19:10	.030	21.3	66.	1019.9	22.	18.
[redacted]:40-19:40	.023	20.2	70.	1020.0	19.	15.
[redacted]:10-20:10	.012	19.0	76.	1020.0	14.	16.
19:40-20:40	.006	18.2	80.	1020.0	10.	21.
[redacted]:10-21:10	.002	17.8	82.	1020.0	5.	24.
[redacted]:40-21:40	.000	17.0	85.	1020.0	1.	15.
21:10-22:10	.000	16.5	87.	1020.0	0.	360.
21:40-22:40	.000	16.1	88.	1020.3	1.	353.
[redacted]:10-23:10	.000	15.4	92.	1020.7	0.	354.
22:40-23:40	.000	15.0	93.	1020.9	0.	89.
23:10-00:10	.000	15.0	93.	1021.0	0.	54.
[redacted]:40-00:40	.000	15.2	93.	1021.2	0.	50.
[redacted]/07/02						
00:10-01:10	.000	15.5	94.	1021.7	0.	69.
[redacted]:40-01:40	.000	15.9	94.	1022.0	0.	242.
[redacted]:10-02:10	.000	16.1	94.	1022.1	0.	287.
01:40-02:40	.000	16.0	95.	1022.2	0.	105.
02:10-03:10	.000	15.7	95.	1022.5	0.	96.
[redacted]:40-03:40	.000	15.2	94.	1022.4	0.	151.
[redacted]:10-04:10	.000	14.7	95.	1022.1	0.	34.
03:40-04:40	.000	14.1	95.	1022.0	0.	359.
[redacted]:10-05:10	.000	14.0	95.	1022.0	0.	341.
[redacted]:40-05:40	.000	14.0	95.	1022.0	0.	323.
05:10-06:10	.000	13.9	94.	1022.1	0.	245.
[redacted]:40-06:40	.001	13.8	94.	1022.1	1.	170.
[redacted]:10-07:10	.003	14.4	92.	1022.1	1.	157.
[redacted]:40-07:40	.010	16.5	87.	1022.1	2.	137.
07:10-08:10	.022	20.6	75.	1022.2	2.	137.
[redacted]:40-08:40	.027	23.3	68.	1022.2	0.	71.
[redacted]:10-09:10	.037	24.5	64.	1022.0	1.	199.
08:40-09:40	.053	26.1	57.	1022.0	2.	202.
[redacted]:10-10:10	.059	26.3	55.	1021.9	5.	204.
[redacted]:40-10:40	.066	25.9	54.	1021.4	7.	210.
10:10-11:10	.072	26.7	51.	1020.8	6.	215.
10:40-11:40	.078	27.9	47.	1020.3	5.	213.
[redacted]:10-12:10	.083	28.6	45.	1019.6	4.	227.
[redacted]:40-12:40	.087	28.8	44.	1018.8	5.	204.
12:10-13:10	.088	28.5	43.	1018.2	9.	193.
[redacted]:40-13:40	.080	28.6	43.	1017.4	6.	203.
[redacted]:10-14:10	-	-	-	-	-	-

Time	SolarRad	Temp	Humidity	Barom	Wind-Spd	Wind-Dir
13:40-14:40	-	-	-	-	-	-
14:10-15:10	-	-	-	-	-	-
14:40-15:40	-	-	-	-	-	-
15:10-16:10	-	-	-	-	-	-
15:40-16:40	-	-	-	-	-	-
16:10-17:10	-	-	-	-	-	-
16:40-17:40	-	-	-	-	-	-
17:10-18:10	-	-	-	-	-	-
17:40-18:40	-	-	-	-	-	-
18:10-19:10	-	-	-	-	-	-
18:40-19:40	-	-	-	-	-	-
19:10-20:10	-	-	-	-	-	-
19:40-20:40	-	-	-	-	-	-
20:10-21:10	-	-	-	-	-	-
20:40-21:40	-	-	-	-	-	-
21:10-22:10	-	-	-	-	-	-
21:40-22:40	-	-	-	-	-	-
22:10-23:10	-	-	-	-	-	-
22:40-23:40	-	-	-	-	-	-
23:10-00:10	-	-	-	-	-	-
23:40-00:40	-	-	-	-	-	-
84/07/03						
00:10-01:10	-	-	-	-	-	-
00:40-01:40	-	-	-	-	-	-
01:10-02:10	-	-	-	-	-	-
01:40-02:40	-	-	-	-	-	-
02:10-03:10	-	-	-	-	-	-
02:40-03:40	-	-	-	-	-	-
03:10-04:10	-	-	-	-	-	-
03:40-04:40	-	-	-	-	-	-
04:10-05:10	-	-	-	-	-	-
04:40-05:40	-	-	-	-	-	-
05:10-06:10	-	-	-	-	-	-
05:40-06:40	-	-	-	-	-	-
06:10-07:10	-	-	-	-	-	-
06:40-07:40	-	-	-	-	-	-
07:10-08:10	-	-	-	-	-	-
07:40-08:40	-	-	-	-	-	-
08:10-09:10	-	-	-	-	-	-
08:40-09:40	-	-	-	-	-	-
09:10-10:10	-	-	-	-	-	-
09:40-10:40	-	-	-	-	-	-
10:10-11:10	-	-	-	-	-	-
10:40-11:40	.076	27.3	55.	1014.1	9.	225.
11:10-12:10	.079	27.7	54.	1013.9	12.	220.
11:40-12:40	.087	28.5	50.	1013.4	13.	225.
12:10-13:10	.073	29.0	48.	1013.0	11.	236.
12:40-13:40	.062	28.8	47.	1012.7	10.	238.
13:10-14:10	.077	29.1	47.	1012.2	14.	228.
13:40-14:40	.069	28.9	47.	1012.0	16.	225.
14:10-15:10	.060	28.8	47.	1011.7	15.	225.
14:40-15:40	.063	29.4	46.	1011.2	14.	233.
15:10-16:10	.056	29.6	46.	1011.0	12.	243.
15:40-16:40	.040	29.1	48.	1010.5	12.	229.
16:10-17:10	.030	28.5	49.	1009.8	17.	216.

Time	SolarRad	Temp	Humidity	Barom	Wind-Spd	Wind-Dir
[redacted]:40-17:40	.031	28.5	50.	1009.2	17.	212.
17:10-18:10	.032	28.9	50.	1009.0	13.	209.
[redacted]:40-18:40	.031	29.1	50.	1008.9	12.	207.
[redacted]:10-19:10	.023	28.4	52.	1008.7	9.	213.
18:40-19:40	.013	27.6	54.	1008.3	4.	225.
19:10-20:10	.008	26.9	56.	1008.0	2.	230.
[redacted]:40-20:40	.003	25.9	63.	1008.0	3.	200.
[redacted]:10-21:10	.001	24.4	69.	1008.0	5.	192.
20:40-21:40	.000	23.4	71.	1008.1	6.	193.
[redacted]:10-22:10	.000	22.9	71.	1008.6	8.	195.
[redacted]:40-22:40	.000	22.6	71.	1009.0	9.	193.
22:10-23:10	.000	22.6	71.	1009.1	11.	191.
[redacted]:40-23:40	.000	22.7	71.	1009.6	11.	197.
[redacted]:10-00:10	.000	22.5	73.	1010.3	8.	215.
23:40-00:40	.000	21.9	77.	1010.8	3.	246.
84/07/04						
[redacted]:10-01:10	.000	21.2	83.	1010.8	0.	265.
[redacted]:40-01:40	.000	20.6	88.	1010.8	0.	150.
01:10-02:10	.000	20.3	89.	1011.0	1.	179.
[redacted]:40-02:40	.000	20.6	86.	1011.0	3.	188.
[redacted]:10-03:10	.000	20.8	83.	1011.0	5.	198.
02:40-03:40	.000	20.6	84.	1011.4	5.	197.
03:10-04:10	.000	20.5	84.	1011.8	5.	214.
[redacted]:40-04:40	.000	20.6	83.	1012.0	5.	234.
[redacted]:10-05:10	.000	20.7	83.	1012.0	4.	253.
04:40-05:40	.000	20.7	82.	1012.3	5.	248.
[redacted]:10-06:10	.000	20.5	82.	1012.8	5.	242.
[redacted]:40-06:40	.001	20.2	84.	1013.0	3.	245.
06:10-07:10	.005	20.2	85.	1013.0	2.	243.
[redacted]:40-07:40	.010	20.8	83.	1013.0	2.	233.
[redacted]:10-08:10	-	-	-	-	-	-
07:40-08:40	-	-	-	-	-	-
08:10-09:10	-	-	-	-	-	-
[redacted]:40-09:40	.042	24.9	70.	1013.9	4.	277.
[redacted]:10-10:10	.058	25.7	67.	1013.7	3.	254.
09:40-10:40	.058	27.0	63.	1013.5	1.	252.
[redacted]:10-11:10	.066	27.2	61.	1013.2	5.	349.
[redacted]:40-11:40	.073	27.3	59.	1013.0	5.	349.
11:10-12:10	.074	28.5	56.	1013.0	3.	336.
11:40-12:40	.079	29.0	55.	1012.6	4.	347.
[redacted]:10-13:10	.076	29.1	55.	1012.1	5.	1.
[redacted]:40-13:40	.076	28.0	57.	1011.9	10.	3.
13:10-14:10	.076	27.4	59.	1011.4	13.	8.
[redacted]:40-14:40	.050	26.6	62.	1010.9	13.	14.
[redacted]:10-15:10	.038	25.6	65.	1010.4	14.	16.
14:40-15:40	.028	25.4	67.	1009.8	13.	21.
[redacted]:10-16:10	.024	25.7	67.	1009.3	11.	26.
[redacted]:40-16:40	.014	24.7	73.	1009.0	8.	20.
16:10-17:10	.007	22.9	82.	1008.6	2.	352.
16:40-17:40	.015	22.6	87.	1008.1	3.	214.
[redacted]:10-18:10	.022	23.4	86.	1008.0	3.	189.
[redacted]:40-18:40	.014	24.0	83.	1008.0	3.	160.
18:10-19:10	.007	23.6	82.	1008.0	2.	137.
[redacted]:40-19:40	.004	22.9	84.	1008.0	3.	145.
[redacted]:10-20:10	.002	22.2	87.	1008.0	5.	141.

Time	SolarRad	Temp	Humidity	Barom	Wind-Spd	Wind-Dir
19:40-20:40	.001	21.7	88.	1008.2	5.	136.
20:10-21:10	.001	21.3	89.	1008.5	3.	138.
20:40-21:40	.000	20.8	90.	1008.9	2.	164.
21:10-22:10	.000	20.3	89.	1009.0	6.	187.
21:40-22:40	.000	19.8	90.	1009.0	6.	191.
22:10-23:10	.000	19.5	91.	1009.1	2.	199.
22:40-23:40	.000	19.1	91.	1009.2	1.	203.
23:10-00:10	.000	18.9	91.	1009.6	3.	206.
23:40-00:40	.000	18.7	91.	1009.9	8.	206.
84/07/05						
00:10-01:10	.000	18.6	91.	1010.0	8.	210.
00:40-01:40	.000	18.4	92.	1010.0	6.	217.
01:10-02:10	.000	18.2	92.	1010.3	6.	221.
01:40-02:40	.000	18.0	93.	1010.7	4.	226.
02:10-03:10	.000	17.8	94.	1011.0	3.	229.
02:40-03:40	.000	17.8	94.	1011.0	4.	227.
03:10-04:10	.000	17.6	95.	1011.0	3.	229.
03:40-04:40	.000	17.2	95.	1011.0	1.	212.
04:10-05:10	.000	16.9	95.	1011.4	1.	187.
04:40-05:40	.000	16.6	96.	1011.9	2.	186.
05:10-06:10	.000	16.3	96.	1012.0	1.	183.
05:40-06:40	.001	16.3	96.	1012.0	0.	178.
06:10-07:10	.004	16.9	95.	1012.2	0.	206.
06:40-07:40	.008	17.9	94.	1012.7	0.	207.
07:10-08:10	.014	19.2	92.	1013.0	0.	242.
07:40-08:40	.026	21.8	84.	1013.0	1.	266.
08:10-09:10	.031	23.5	75.	1013.0	1.	349.
08:40-09:40	.031	23.1	72.	1013.0	3.	1.
09:10-10:10	.035	23.9	69.	1013.0	2.	1.
09:40-10:40	.032	24.4	68.	1013.0	1.	344.
10:10-11:10	.028	23.1	72.	1013.0	3.	341.
10:40-11:40	.053	23.6	72.	1012.8	3.	343.
11:10-12:10	.062	25.8	66.	1012.5	1.	318.
11:40-12:40	.050	27.3	63.	1012.3	1.	210.
12:10-13:10	.064	28.0	62.	1012.0	2.	339.
12:40-13:40	.065	26.2	68.	1012.0	7.	348.
13:10-14:10	.046	23.3	74.	1011.6	13.	357.
13:40-14:40	.023	21.3	81.	1010.9	14.	360.
14:10-15:10	.005	49.1	51.	1010.8	14.	341.
14:40-15:40	.012	59.9	22.	1010.5	10.	331.
15:10-16:10	.020	35.5	39.	1010.2	10.	346.
15:40-16:40	.026	28.5	55.	1010.1	10.	349.
16:10-17:10	.020	27.8	58.	1010.0	3.	354.
16:40-17:40	.008	26.9	60.	1010.1	4.	135.
17:10-18:10	.013	26.4	62.	1010.1	7.	147.
17:40-18:40	.014	27.7	58.	1010.6	8.	182.
18:10-19:10	.013	28.3	56.	1011.0	7.	196.
18:40-19:40	.016	27.5	55.	1011.0	7.	195.
19:10-20:10	.011	25.9	57.	1011.0	11.	184.
19:40-20:40	.005	24.3	63.	1011.0	9.	181.
20:10-21:10	.002	23.2	67.	1011.0	7.	190.
20:40-21:40	.000	22.4	70.	1011.0	9.	193.
21:10-22:10	.000	21.6	72.	1011.0	10.	188.
21:40-22:40	.000	20.9	73.	1011.0	12.	188.
22:10-23:10	.000	20.3	75.	1011.0	12.	190.

Time	SolarRad	Temp	Humidity	Barom	Wind-Spd	Wind-Dir
22:40-23:40	.000	20.1	76.	1011.1	12.	192.
23:10-00:10	.000	20.0	76.	1011.5	14.	190.
23:40-00:40	.000	19.7	78.	1011.9	14.	191.
84/07/06						
00:10-01:10	.000	19.9	77.	1012.0	14.	196.
00:40-01:40	.000	20.1	77.	1011.9	15.	197.
01:10-02:10	.000	20.2	78.	1011.9	15.	197.
01:40-02:40	.000	20.3	79.	1012.0	15.	197.
02:10-03:10	.000	20.1	81.	1011.6	12.	191.
02:40-03:40	.000	20.0	81.	1011.2	9.	199.
03:10-04:10	.000	20.3	81.	1011.6	5.	220.
03:40-04:40	.000	20.3	82.	1011.5	4.	282.
04:10-05:10	.000	20.3	82.	1011.2	5.	193.
04:40-05:40	.000	20.6	82.	1011.1	9.	174.
05:10-06:10	.000	20.6	82.	1011.0	13.	177.
05:40-06:40	.000	20.6	82.	1011.0	11.	188.
06:10-07:10	.000	20.5	84.	1010.9	5.	233.
06:40-07:40	-	-	-	-	-	-
07:10-08:10	-	-	-	-	-	-
07:40-08:40	-	-	-	-	-	-
08:10-09:10	-	-	-	-	-	-
08:40-09:40	-	-	-	-	-	-
09:10-10:10	.013	19.6	88.	1010.9	17.	174.
09:40-10:40	.011	19.4	86.	1011.0	18.	190.
10:10-11:10	.011	19.5	82.	1011.0	18.	200.
10:40-11:40	.019	20.2	80.	1011.0	16.	199.
11:10-12:10	.027	21.3	78.	1011.0	9.	212.
11:40-12:40	.036	22.9	72.	1011.0	6.	257.
12:10-13:10	.041	24.2	66.	1011.0	6.	288.
12:40-13:40	.039	24.3	65.	1011.0	4.	306.
13:10-14:10	.047	24.8	63.	1010.6	5.	278.
13:40-14:40	.044	25.1	60.	1010.1	5.	272.
14:10-15:10	.038	24.1	63.	1010.0	4.	314.
14:40-15:40	.059	24.0	64.	1009.7	4.	319.
15:10-16:10	.069	26.0	58.	1009.3	4.	294.
15:40-16:40	.053	24.9	66.	1009.1	3.	289.
16:10-17:10	.052	23.9	70.	1009.1	1.	282.
16:40-17:40	.040	25.7	59.	1009.0	2.	308.
17:10-18:10	.038	25.2	57.	1009.0	5.	322.
17:40-18:40	.035	24.7	55.	1009.3	8.	323.
18:10-19:10	.032	24.5	52.	1009.8	11.	318.
18:40-19:40	.022	23.7	51.	1010.0	11.	317.
19:10-20:10	.013	21.8	56.	1010.2	17.	326.
19:40-20:40	.007	19.8	61.	1010.7	23.	329.
20:10-21:10	.002	18.5	61.	1011.2	22.	330.
20:40-21:40	.000	17.6	61.	1011.7	18.	330.
21:10-22:10	.000	16.9	61.	1012.4	12.	327.
21:40-22:40	.000	16.4	62.	1013.0	11.	320.
22:10-23:10	.000	15.8	63.	1013.6	12.	316.
22:40-23:40	.000	15.2	64.	1014.1	12.	312.
23:10-00:10	.000	14.6	64.	1014.6	13.	303.
23:40-00:40	.000	14.3	63.	1015.0	13.	297.
84/07/07						
00:10-01:10	.000	14.1	61.	1015.0	15.	295.
00:40-01:40	.000	13.8	62.	1015.1	15.	294.

Time	SolarRad	Temp	Humidity	Baroa	Wind-Spd	Wind-Dir
01:10-02:10	.000	13.4	63.	1015.5	13.	294.
01:40-02:40	.000	13.1	65.	1016.0	13.	293.
02:10-03:10	.000	12.8	65.	1016.0	14.	295.
02:40-03:40	.000	12.6	66.	1016.1	14.	297.
03:10-04:10	.000	12.5	67.	1016.5	15.	296.
03:40-04:40	.000	12.2	67.	1017.1	14.	295.
04:10-05:10	.000	12.0	68.	1017.6	13.	298.
04:40-05:40	.000	11.7	69.	1018.0	14.	285.
05:10-06:10	.000	11.7	69.	1018.3	16.	287.
05:40-06:40	.001	11.9	69.	1018.7	17.	288.
06:10-07:10	.005	12.4	68.	1019.0	18.	287.
06:40-07:40	.007	12.8	67.	1019.2	20.	288.
07:10-08:10	.016	13.8	66.	1019.6	20.	289.
07:40-08:40	.029	15.1	63.	1019.9	21.	289.
08:10-09:10	.038	15.8	61.	1020.0	21.	293.
08:40-09:40	.043	16.2	61.	1020.0	20.	297.
09:10-10:10	.048	16.5	61.	1020.1	19.	300.
09:40-10:40	.062	17.4	59.	1020.4	17.	303.
10:10-11:10	.059	17.9	59.	1020.8	16.	305.
10:40-11:40	.055	18.0	58.	1021.0	13.	307.
11:10-12:10	.047	18.0	58.	1021.0	10.	309.
11:40-12:40	.026	16.9	61.	1021.1	9.	310.
12:10-13:10	.019	16.6	61.	1021.1	9.	314.
12:40-13:40	.027	17.2	60.	1021.0	10.	325.
13:10-14:10	.029	17.6	58.	1021.1	10.	330.
13:40-14:40	.029	18.3	56.	1021.6	6.	323.
14:10-15:10	.039	19.5	53.	1021.9	5.	305.
14:40-15:40	.040	20.6	51.	1022.0	6.	298.
15:10-16:10	.052	21.5	49.	1022.0	5.	303.
15:40-16:40	.072	22.5	46.	1022.0	5.	317.
16:10-17:10	.062	22.7	45.	1022.0	4.	319.
16:40-17:40	.041	22.5	45.	1022.0	2.	304.
17:10-18:10	.029	21.7	47.	1022.0	1.	305.
17:40-18:40	.027	21.4	47.	1022.0	1.	351.
18:10-19:10	.026	21.5	47.	1021.7	1.	350.
18:40-19:40	.020	21.4	49.	1021.4	0.	332.
19:10-20:10	.012	20.5	51.	1021.2	0.	292.
19:40-20:40	.004	18.7	55.	1021.0	0.	287.
20:10-21:10	.002	17.2	61.	1021.0	0.	145.
20:40-21:40	.000	15.2	75.	1021.3	0.	149.
21:10-22:10	.000	13.6	84.	1021.8	1.	202.
21:40-22:40	.000	13.1	84.	1022.0	2.	203.
22:10-23:10	.000	12.4	86.	1022.2	1.	202.
22:40-23:40	.000	12.1	87.	1022.7	3.	199.
23:10-00:10	.000	12.2	84.	1023.0	5.	199.
23:40-00:40	.000	11.6	85.	1023.0	2.	194.
4/07/08						
0:10-01:10	.000	10.8	89.	1023.4	0.	35.
0:40-01:40	.000	10.8	90.	1023.9	1.	179.
1:10-02:10	.000	11.1	89.	1024.0	1.	195.
1:40-02:40	.000	11.2	87.	1024.0	1.	206.
2:10-03:10	.000	11.2	87.	1024.0	1.	208.
2:40-03:40	.000	10.8	89.	1024.1	0.	208.
3:10-04:10	.000	10.2	90.	1024.5	0.	32.
3:40-04:40	.000	9.8	91.	1024.9	0.	224.

[redacted]me	SolarRad	Temp	Humidity	Baros	Wind-Spd	Wind-Dir
[redacted]4:10-05:10	.000	9.4	92.	1025.0	1.	167.
[redacted]:40-05:40	.000	8.7	93.	1025.1	1.	162.
[redacted]5:10-06:10	.000	9.4	93.	1025.6	1.	198.
05:40-06:40	.002	9.3	90.	1026.0	1.	199.
[redacted]:10-07:10	.006	11.1	85.	1026.0	0.	333.
[redacted]:40-07:40	.011	14.0	79.	1026.0	0.	212.
07:10-08:10	.020	15.9	77.	1026.5	1.	212.
[redacted]:40-08:40	.032	17.5	74.	1027.0	1.	233.
[redacted]:10-09:10	.043	20.1	66.	1027.0	1.	282.
08:40-09:40	.052	21.6	59.	1027.0	1.	308.
[redacted]:10-10:10	.060	21.8	53.	1027.0	2.	343.
[redacted]:40-10:40	.068	21.8	51.	1027.0	3.	341.
[redacted]:10-11:10	.075	22.4	48.	1026.6	4.	339.
10:40-11:40	.081	22.7	45.	1026.5	6.	349.
[redacted]:10-12:10	.086	22.7	43.	1026.6	6.	348.
[redacted]:40-12:40	.090	22.7	41.	1026.6	7.	349.
12:10-13:10	.092	23.2	40.	1026.4	7.	350.
[redacted]:40-13:40	.094	23.9	40.	1026.1	5.	348.
[redacted]:10-14:10	.095	24.3	41.	1026.0	6.	349.
13:40-14:40	.093	25.0	41.	1025.7	6.	348.
14:10-15:10	-	-	-	-	-	-
[redacted]:40-15:40	-	-	-	-	-	-
[redacted]:10-16:10	-	-	-	-	-	-
15:40-16:40	-	-	-	-	-	-
[redacted]:10-17:10	.084	27.1	38.	1024.1	1.	166.
[redacted]:40-17:40	.078	27.4	38.	1023.5	2.	183.
17:10-18:10	.071	27.1	39.	1023.0	5.	179.
[redacted]:40-18:40	.064	27.1	39.	1022.5	7.	165.
[redacted]:10-19:10	.056	26.7	40.	1022.0	12.	162.
18:40-19:40	.045	25.4	43.	1021.5	17.	163.
19:10-20:10	.030	24.4	45.	1021.0	18.	151.
[redacted]:40-20:40	.021	23.4	47.	1021.0	16.	147.
[redacted]:10-21:10	.016	22.7	49.	1021.0	13.	150.
20:40-21:40	.007	21.6	54.	1020.9	13.	164.
[redacted]:10-22:10	.002	19.9	60.	1020.8	11.	178.
[redacted]:40-22:40	.000	18.6	64.	1020.8	11.	173.
22:10-23:10	.000	18.0	66.	1020.9	13.	173.
[redacted]:40-23:40	.000	17.8	65.	1020.9	15.	173.
[redacted]:10-00:10	.000	17.6	65.	1021.0	15.	173.
23:40-00:40	.000	17.2	66.	1021.0	16.	171.
84/07/09						
[redacted]:10-01:10	.000	17.0	68.	1021.0	18.	167.
[redacted]:40-01:40	.000	16.8	69.	1021.0	19.	166.
01:10-02:10	.000	16.6	70.	1021.0	18.	172.
[redacted]:40-02:40	.000	16.4	70.	1021.2	14.	178.
[redacted]:10-03:10	.000	16.2	70.	1021.4	13.	180.
02:40-03:40	.000	16.0	70.	1021.3	14.	180.
[redacted]:10-04:10	.000	15.8	71.	1021.1	13.	178.
[redacted]:40-04:40	.000	16.0	72.	1021.2	12.	177.
04:10-05:10	.000	16.3	72.	1021.6	12.	176.
04:40-05:40	.000	16.5	73.	1021.9	11.	176.
[redacted]:10-06:10	.000	16.5	74.	1022.0	11.	174.
[redacted]:40-06:40	.000	16.6	75.	1022.0	11.	173.
06:10-07:10	.000	16.4	76.	1022.0	11.	172.
[redacted]:40-07:40	.000	16.4	77.	1022.1	13.	171.

Time	SolarRad	Temp	Humidity	Baron	Wind-Spd	Wind-Dir
07:10-08:10	.001	16.8	77.	1022.1	16.	169.
07:40-08:40	.004	17.2	77.	1022.0	18.	167.
08:10-09:10	.013	18.7	73.	1022.0	19.	170.
08:40-09:40	.029	21.0	68.	1022.0	21.	175.
09:10-10:10	.035	21.9	67.	1022.0	21.	179.
09:40-10:40	.033	22.1	67.	1022.0	22.	186.
10:10-11:10	.033	22.4	65.	1022.0	26.	191.
10:40-11:40	.028	22.1	65.	1021.8	24.	195.
11:10-12:10	.033	22.1	65.	1021.3	24.	197.
11:40-12:40	.051	23.2	62.	1021.0	28.	194.
12:10-13:10	.042	23.3	61.	1020.9	28.	197.
12:40-13:40	.023	22.6	62.	1020.5	27.	197.
13:10-14:10	.019	22.4	63.	1019.9	27.	191.
13:40-14:40	.024	22.6	64.	1019.4	29.	185.
14:10-15:10	.049	23.8	62.	1018.5	35.	181.
14:40-15:40	.078	24.9	59.	1018.0	41.	184.
15:10-16:10	.087	25.1	57.	1017.4	43.	189.
15:40-16:40	.080	25.3	56.	1016.7	43.	188.
16:10-17:10	.068	25.1	57.	1016.3	41.	189.
16:40-17:40	.066	24.7	58.	1016.0	39.	192.
17:10-18:10	.068	24.4	59.	1015.5	42.	192.
17:40-18:40	.054	23.7	61.	1015.5	40.	198.
18:10-19:10	.036	22.8	64.	1016.0	32.	211.
18:40-19:40	.034	22.3	68.	1015.7	29.	213.
19:10-20:10	.029	22.4	69.	1015.2	30.	201.
19:40-20:40	.012	21.9	72.	1015.0	28.	198.
20:10-21:10	.004	21.3	75.	1014.9	25.	195.
20:40-21:40	.002	21.0	78.	1014.4	26.	186.
21:10-22:10	.001	20.7	78.	1014.0	29.	182.
21:40-22:40	.001	20.4	79.	1013.6	29.	181.
22:10-23:10	.000	20.3	79.	1014.0	22.	187.
22:40-23:40	.000	20.2	80.	1014.0	15.	199.
23:10-00:10	.000	20.0	82.	1015.0	13.	187.
23:40-00:40	.000	19.9	83.	1015.0	13.	177.
84/07/10						
00:10-01:10	.000	19.8	83.	1015.2	14.	177.
00:40-01:40	.000	19.6	85.	1015.0	19.	174.
01:10-02:10	.000	19.4	87.	1014.3	23.	174.
01:40-02:40	.000	19.1	90.	1014.7	18.	190.
02:10-03:10	.000	19.1	96.	1014.9	8.	203.
02:40-03:40	.000	19.3	100.	1014.2	5.	144.
03:10-04:10	.000	19.4	99.	1013.9	11.	164.
03:40-04:40	.000	19.7	97.	1013.8	15.	178.
04:10-05:10	.000	19.7	96.	1013.8	16.	185.
04:40-05:40	.000	19.7	96.	1013.4	16.	186.
05:10-06:10	.000	20.0	95.	1013.1	15.	192.
05:40-06:40	.000	20.1	95.	1013.0	16.	196.
06:10-07:10	.000	20.0	95.	1013.2	14.	195.
06:40-07:40	.000	19.9	95.	1013.7	14.	196.
07:10-08:10	.000	20.0	94.	1014.1	13.	197.
07:40-08:40	.005	20.3	93.	1014.5	12.	205.
08:10-09:10	.009	21.5	90.	1014.8	6.	225.
08:40-09:40	.004	21.9	89.	1014.1	3.	349.
09:10-10:10	.006	21.4	91.	1013.7	2.	242.
09:40-10:40	.018	22.6	89.	1013.9	7.	219.

[redacted]me	SolarRad	Temp	Humidity	Baron	Wind-Spd	Wind-Dir
10:10-11:10	.824	24.2	86.	1013.9	6.	222.
[redacted]:40-11:40	.834	25.6	82.	1014.0	4.	234.
[redacted]10-12:10	.857	28.9	73.	1014.0	2.	283.
11:40-12:40	.860	31.7	64.	1014.0	3.	299.
[redacted]:10-13:10	.838	31.1	65.	1013.7	2.	290.
[redacted]:40-13:40	.821	29.8	68.	1013.3	1.	290.
13:10-14:10	.827	29.5	67.	1012.7	2.	298.
[redacted]40-14:40	.845	30.3	64.	1011.7	2.	313.
[redacted]10-15:10	.861	30.0	65.	1011.0	7.	346.
14:40-15:40	.874	29.3	68.	1010.9	13.	359.
15:10-16:10	.865	28.9	70.	1010.4	16.	11.
[redacted]:40-16:40	.851	27.5	73.	1009.8	20.	20.
[redacted]10-17:10	.857	27.8	73.	1009.4	16.	26.
16:40-17:40	.839	28.5	73.	1008.7	8.	41.
[redacted]10-18:10	.814	26.9	78.	1008.2	7.	27.
[redacted]:40-18:40	.809	24.3	84.	1008.3	16.	11.
18:10-19:10	.805	22.8	86.	1008.4	18.	18.
[redacted]:40-19:40	.808	23.1	87.	1008.2	10.	33.
[redacted]10-20:10	.809	23.3	88.	1008.0	7.	29.
19:40-20:40	.804	21.9	91.	1008.0	10.	18.
20:10-21:10	.802	21.1	92.	1008.5	6.	29.
[redacted]:40-21:40	.800	21.4	92.	1009.0	2.	79.
[redacted]10-22:10	.800	21.5	93.	1009.0	1.	106.
21:40-22:40	.800	21.4	93.	1009.0	4.	122.
[redacted]10-23:10	.800	21.3	93.	1008.9	8.	126.
[redacted]:40-23:40	.800	21.5	93.	1008.5	11.	139.
23:10-00:10	.800	21.8	92.	1008.0	18.	149.
[redacted]:40-00:40	.800	22.3	92.	1007.8	20.	156.
[redacted]87/11						
00:10-01:10	.800	22.7	91.	1007.7	19.	171.
00:40-01:40	.800	23.4	87.	1007.8	22.	190.
[redacted]10-02:10	.800	23.7	83.	1008.3	14.	233.
[redacted]:40-02:40	.800	22.4	86.	1008.8	16.	286.
02:10-03:10	.800	20.9	91.	1008.4	8.	279.
[redacted]:40-03:40	.800	20.5	93.	1007.5	0.	189.
[redacted]10-04:10	.800	20.4	93.	1006.6	2.	202.
03:40-04:40	.800	20.6	93.	1006.3	3.	203.
[redacted]10-05:10	.800	20.7	92.	1006.3	3.	201.
[redacted]:40-05:40	.800	20.8	92.	1006.1	1.	200.
[redacted]10-06:10	.800	21.0	91.	1006.0	1.	192.
05:40-06:40	.800	21.0	90.	1006.1	0.	189.
[redacted]10-07:10	.800	21.0	91.	1006.6	0.	197.
[redacted]:40-07:40	.801	21.1	92.	1007.0	0.	165.
07:10-08:10	.802	21.2	93.	1007.1	0.	178.
[redacted]:40-08:40	.804	21.3	93.	1007.3	0.	164.
[redacted]10-09:10	.806	21.7	92.	1007.7	0.	173.
08:40-09:40	.807	21.8	93.	1007.8	0.	185.
[redacted]10-10:10	.807	21.8	93.	1007.5	0.	186.
[redacted]:40-10:40	.809	22.1	93.	1007.5	0.	179.
[redacted]10-11:10	.807	20.5	95.	1007.8	1.	2.
10:40-11:40	.805	18.6	96.	1008.1	1.	1.
[redacted]10-12:10	.806	18.2	97.	1008.6	1.	2.
[redacted]:40-12:40	.806	17.9	97.	1009.4	15.	348.
12:10-13:10	.807	17.6	97.	1009.2	32.	348.
[redacted]:40-13:40	.806	17.5	97.	1008.4	33.	349.

Time	SolarRad	Temp	Humidity	Barom	Wind-Spd	Wind-Dir
13:10-14:10	.807	17.6	97.	1009.0	27.	346.
13:40-14:40	.812	17.9	98.	1009.8	21.	342.
14:10-15:10	.819	18.3	99.	1010.0	13.	339.
14:40-15:40	.830	18.9	99.	1010.0	12.	338.
15:10-16:10	.845	19.4	96.	1010.0	18.	352.
15:40-16:40	.863	20.3	90.	1010.0	22.	0.
16:10-17:10	.868	21.5	85.	1010.0	19.	358.
16:40-17:40	.860	22.9	80.	1010.0	11.	350.
17:10-18:10	.850	25.3	73.	1010.1	4.	323.
17:40-18:40	.841	26.7	68.	1010.1	4.	292.
18:10-19:10	.829	26.7	66.	1010.0	5.	284.
18:40-19:40	.820	26.1	68.	1010.1	5.	281.
19:10-20:10	.811	24.8	73.	1010.1	3.	271.
19:40-20:40	.804	23.5	79.	1010.1	1.	251.
20:10-21:10	.802	22.6	83.	1010.1	0.	234.
20:40-21:40	.800	21.6	86.	1010.2	1.	255.
21:10-22:10	.800	21.1	84.	1010.7	5.	274.
21:40-22:40	.800	20.9	79.	1011.0	7.	282.
22:10-23:10	.800	20.6	77.	1011.4	5.	291.
22:40-23:40	.800	20.3	79.	1011.9	3.	305.
23:10-00:10	.800	19.8	80.	1012.3	2.	305.
23:40-00:40	.800	19.1	83.	1012.8	2.	306.
84/07/12						
00:10-01:10	.800	18.6	84.	1012.1	2.	307.
00:40-01:40	.800	18.1	86.	1012.1	1.	305.
01:10-02:10	.800	17.8	87.	1012.4	1.	299.
01:40-02:40	.800	17.8	87.	1012.8	1.	295.
02:10-03:10	.800	17.5	89.	1012.9	1.	280.
02:40-03:40	.800	17.0	91.	1012.9	1.	274.
03:10-04:10	.800	16.3	92.	1013.0	1.	275.
03:40-04:40	.800	16.1	91.	1013.0	2.	276.
04:10-05:10	.800	16.2	90.	1013.0	3.	278.
04:40-05:40	.800	16.0	89.	1013.2	2.	275.
05:10-06:10	.800	15.4	90.	1013.6	1.	253.
05:40-06:40	.801	15.6	89.	1014.0	1.	256.
06:10-07:10	.805	17.0	84.	1014.0	1.	261.
06:40-07:40	.810	18.6	81.	1014.3	1.	211.
07:10-08:10	.819	20.2	78.	1014.7	2.	206.
07:40-08:40	.829	21.1	77.	1015.0	3.	220.
08:10-09:10	.839	21.7	76.	1015.0	7.	217.
08:40-09:40	.848	22.5	74.	1015.0	10.	218.
09:10-10:10	.856	23.7	70.	1015.0	11.	218.
09:40-10:40	.864	25.4	66.	1015.0	11.	233.
10:10-11:10	.868	26.5	62.	1015.0	12.	242.
10:40-11:40	.873	26.8	60.	1014.6	14.	230.
11:10-12:10	.881	27.4	60.	1014.1	15.	233.
11:40-12:40	.884	28.6	57.	1014.0	14.	245.
12:10-13:10	.885	29.8	54.	1014.0	13.	261.
12:40-13:40	.888	31.1	51.	1013.7	11.	286.
13:10-14:10	.891	32.0	50.	1013.3	9.	303.
13:40-14:40	.889	32.4	48.	1013.0	8.	303.
14:10-15:10	.886	32.7	47.	1012.6	7.	305.
14:40-15:40	.882	32.5	48.	1012.2	5.	316.
15:10-16:10	.878	31.7	49.	1012.0	6.	329.
15:40-16:40	.872	31.1	49.	1011.5	7.	336.

[redacted]	SolarRad	Temp	Humidity	Barom	Wind-Spd	Wind-Dir
[redacted]10-17:10	.061	30.5	50.	1011.0	8.	341.
[redacted]40-17:40	.039	28.4	55.	1011.0	11.	358.
17:10-18:10	.014	25.2	66.	1010.9	13.	8.
17:40-18:40	.005	23.3	76.	1011.0	7.	3.
[redacted]10-19:10	.014	23.4	75.	1011.0	6.	7.
[redacted]40-19:40	-	-	-	-	-	-
19:10-20:10	-	-	-	-	-	-
[redacted]40-20:40	-	-	-	-	-	-
[redacted]10-21:10	-	-	-	-	-	-
20:40-21:40	-	-	-	-	-	-
[redacted]10-22:10	-	-	-	-	-	-
[redacted]40-22:40	-	-	-	-	-	-
22:10-23:10	-	-	-	-	-	-
22:40-23:40	-	-	-	-	-	-
[redacted]10-00:10	-	-	-	-	-	-
[redacted]40-00:40	-	-	-	-	-	-
84/07/13						
[redacted]10-01:10	-	-	-	-	-	-
[redacted]40-01:40	-	-	-	-	-	-
01:10-02:10	-	-	-	-	-	-
[redacted]40-02:40	-	-	-	-	-	-
[redacted]10-03:10	-	-	-	-	-	-
[redacted]40-03:40	-	-	-	-	-	-
03:10-04:10	-	-	-	-	-	-
[redacted]40-04:40	-	-	-	-	-	-
[redacted]10-05:10	-	-	-	-	-	-
04:40-05:40	-	-	-	-	-	-
[redacted]10-06:10	-	-	-	-	-	-
[redacted]40-06:40	-	-	-	-	-	-
06:10-07:10	-	-	-	-	-	-
[redacted]40-07:40	-	-	-	-	-	-
[redacted]10-08:10	-	-	-	-	-	-
07:40-08:40	-	-	-	-	-	-
08:10-09:10	-	-	-	-	-	-
[redacted]40-09:40	-	-	-	-	-	-
[redacted]10-10:10	-	-	-	-	-	-
09:40-10:40	-	-	-	-	-	-
[redacted]10-11:10	.070	28.7	58.	1010.1	7.	236.
[redacted]40-11:40	.076	30.2	54.	1010.8	3.	267.
11:10-12:10	.081	31.3	53.	1010.7	4.	307.
11:40-12:40	.085	30.7	54.	1010.0	6.	328.
[redacted]10-13:10	.087	29.8	55.	1009.7	9.	341.
12:40-13:40	.088	29.2	56.	1009.2	13.	352.
13:10-14:10	.086	29.2	55.	1009.0	12.	354.
[redacted]40-14:40	.085	30.1	52.	1008.5	9.	348.
[redacted]10-15:10	.083	30.5	49.	1008.0	8.	350.
14:40-15:40	.072	30.7	48.	1007.9	7.	352.
[redacted]10-16:10	.068	31.7	46.	1007.6	1.	289.
[redacted]40-16:40	.069	31.6	44.	1007.2	13.	199.
16:10-17:10	.063	30.3	45.	1006.8	22.	201.
16:40-17:40	.056	29.9	45.	1006.3	22.	204.
[redacted]10-18:10	.048	29.6	47.	1006.0	21.	210.
[redacted]40-18:40	.040	29.2	50.	1005.9	19.	212.
18:10-19:10	.028	28.7	52.	1005.4	18.	205.
[redacted]10-19:40	.019	28.1	56.	1005.0	15.	197.

[redacted]

[redacted]

Time	SolarRad	Temp	Humidity	Barom	Wind-Spd	Wind-Dir
19:10-20:10	.011	27.0	62.	1013.0	12.	189.
19:40-20:40	.004	25.5	67.	1013.0	11.	183.
20:10-21:10	.002	24.2	70.	1013.0	11.	182.
20:40-21:40	.000	23.0	71.	1013.0	10.	184.
21:10-22:10	.000	22.1	73.	1013.4	11.	184.
21:40-22:40	.000	21.3	76.	1013.9	11.	185.
22:10-23:10	.000	21.0	77.	1014.0	11.	189.
22:40-23:40	.000	20.9	77.	1014.5	12.	199.
23:10-00:10	.000	20.7	79.	1014.9	14.	203.
23:40-00:40	.000	20.1	82.	1015.3	15.	203.
84/07/14						
00:10-01:10	.000	19.7	84.	1015.8	15.	202.
00:40-01:40	.000	19.5	85.	1016.4	15.	203.
01:10-02:10	.000	19.3	86.	1016.9	15.	206.
01:40-02:40	.000	19.3	87.	1017.0	15.	207.
02:10-03:10	.000	19.4	86.	1017.3	13.	209.
02:40-03:40	.000	19.5	86.	1017.8	11.	211.
03:10-04:10	.000	19.3	87.	1018.0	9.	211.
03:40-04:40	.000	19.1	88.	1018.2	9.	207.
04:10-05:10	.000	18.8	89.	1018.6	10.	204.
04:40-05:40	.000	18.6	91.	1019.0	11.	202.
05:10-06:10	.000	18.5	91.	1019.0	10.	200.
05:40-06:40	.001	18.6	91.	1019.4	10.	200.
06:10-07:10	.005	19.0	91.	1019.9	10.	203.
06:40-07:40	.010	20.2	87.	1020.0	10.	203.
07:10-08:10	.018	21.8	83.	1020.0	12.	203.
07:40-08:40	.028	23.2	79.	1020.0	13.	205.
08:10-09:10	.038	24.6	75.	1020.0	13.	210.
08:40-09:40	.049	25.9	72.	1020.4	11.	221.
09:10-10:10	.049	26.8	70.	1020.9	10.	231.
09:40-10:40	.055	27.7	68.	1021.0	10.	233.
10:10-11:10	.068	29.0	63.	1020.8	10.	234.
10:40-11:40	.074	30.5	58.	1020.6	9.	244.
11:10-12:10	.078	31.2	54.	1020.3	9.	243.
11:40-12:40	.081	31.4	53.	1019.8	10.	231.
12:10-13:10	.083	32.2	50.	1019.3	9.	237.
12:40-13:40	.081	33.2	47.	1018.7	8.	248.
13:10-14:10	.084	33.2	46.	1018.1	11.	238.
13:40-14:40	.076	32.2	46.	1017.3	16.	228.
14:10-15:10	.065	31.5	47.	1016.4	18.	220.
14:40-15:40	.063	30.9	49.	1015.7	20.	221.
15:10-16:10	.067	31.1	49.	1015.1	21.	218.
15:40-16:40	.072	31.5	49.	1014.5	23.	212.
16:10-17:10	.064	31.4	49.	1013.7	23.	210.
16:40-17:40	.056	31.3	49.	1013.1	21.	215.
17:10-18:10	.047	31.0	49.	1012.6	22.	216.
17:40-18:40	.036	30.5	52.	1012.1	21.	212.
18:10-19:10	.026	30.0	55.	1011.7	19.	207.
18:40-19:40	.018	29.3	57.	1011.2	21.	202.
19:10-20:10	.010	28.4	59.	1011.0	20.	204.
19:40-20:40	.004	27.5	61.	1011.0	16.	201.
20:10-21:10	.002	26.2	65.	1011.2	13.	197.
20:40-21:40	.000	24.9	70.	1011.7	11.	196.
21:10-22:10	.000	24.0	73.	1012.0	11.	197.
21:40-22:40	.000	23.6	74.	1012.2	12.	200.

Time	SolarRad	Temp	Humidity	Barom	Wind-Spd	Wind-Dir
[redacted]10-23:10	.000	23.5	74.	1012.7	13.	204.
[redacted]40-23:40	.000	22.9	76.	1013.0	11.	201.
23:10-00:10	.000	22.0	81.	1013.3	10.	191.
[redacted]40-00:40	.000	21.7	80.	1013.0	11.	186.
[redacted]07/15						
00:10-01:10	.000	21.9	78.	1013.0	13.	184.
00:40-01:40	.000	22.0	76.	1013.2	14.	186.
[redacted]10-02:10	.000	22.1	77.	1013.6	12.	194.
[redacted]40-02:40	.000	21.9	79.	1014.0	12.	200.
02:10-03:10	.000	21.7	81.	1014.0	12.	200.
[redacted]40-03:40	.000	21.4	83.	1014.4	12.	199.
[redacted]10-04:10	.000	21.4	85.	1014.5	13.	198.
03:40-04:40	.000	21.7	84.	1014.2	13.	200.
[redacted]10-05:10	.000	21.8	84.	1014.1	13.	201.
[redacted]40-05:40	.000	21.9	84.	1014.0	15.	203.
05:10-06:10	.000	22.0	83.	1014.0	16.	207.
[redacted]40-06:40	.000	21.7	85.	1014.2	14.	206.
[redacted]10-07:10	.003	21.7	86.	1014.2	15.	201.
[redacted]40-07:40	.006	22.2	84.	1014.1	16.	202.
07:10-08:10	.011	22.8	82.	1014.1	16.	203.
[redacted]40-08:40	.016	23.5	80.	1014.0	17.	205.
[redacted]10-09:10	-	-	-	-	-	-
08:40-09:40	-	-	-	-	-	-
[redacted]10-10:10	-	-	-	-	-	-
[redacted]40-10:40	-	-	-	-	-	-
10:10-11:10	.022	25.2	75.	1013.8	21.	206.
10:40-11:40	.040	26.2	72.	1013.8	23.	209.
[redacted]10-12:10	.056	27.2	68.	1012.7	26.	215.
[redacted]40-12:40	.063	27.9	65.	1012.1	27.	217.
12:10-13:10	.048	27.8	64.	1011.5	28.	217.
[redacted]10-13:40	.019	26.7	66.	1011.8	25.	215.
[redacted]10-14:10	.011	25.8	69.	1010.4	22.	209.
13:40-14:40	.022	25.7	72.	1010.8	22.	204.
[redacted]10-15:10	.034	26.2	71.	1009.5	23.	209.
[redacted]10-15:40	.032	26.6	68.	1009.1	23.	219.
15:10-16:10	.043	27.2	66.	1009.1	23.	223.
15:40-16:40	.046	27.7	64.	1008.9	24.	220.
[redacted]10-17:10	.044	27.8	64.	1008.5	24.	216.
[redacted]40-17:40	.045	27.7	65.	1008.1	24.	215.
17:10-18:10	.027	27.4	66.	1008.8	22.	213.
[redacted]10-18:40	.017	27.2	68.	1007.7	15.	219.
[redacted]10-19:10	.017	27.8	64.	1007.3	6.	255.
18:40-19:40	.018	28.1	60.	1007.1	4.	302.
[redacted]10-20:10	.011	26.9	61.	1007.1	4.	300.
[redacted]10-20:40	.004	25.5	64.	1007.2	3.	285.
20:10-21:10	.001	24.5	67.	1007.5	2.	268.
20:40-21:40	.000	23.9	68.	1007.9	5.	277.
[redacted]10-22:10	.000	23.8	64.	1008.1	11.	282.
[redacted]10-22:40	.000	23.5	68.	1008.6	11.	280.
22:10-23:10	.000	22.9	68.	1009.0	8.	271.
[redacted]10-23:40	.000	22.4	68.	1009.0	9.	272.
[redacted]10-00:10	.000	22.3	68.	1009.0	9.	272.
23:40-00:40	.000	21.7	62.	1009.1	8.	257.
84/07/16						
[redacted]10-01:10	.000	20.7	66.	1009.4	6.	239.

[redacted]

[redacted]

Time	SolarRad	Temp	Humidity	Barom	Wind-Spd	Wind-Dir
00:40-01:40	.000	20.1	68.	1009.8	6.	225.
01:10-02:10	.000	19.5	71.	1009.9	6.	223.
01:40-02:40	.000	19.1	74.	1009.9	4.	230.
02:10-03:10	.000	19.4	73.	1010.0	7.	244.
02:40-03:40	.000	19.8	73.	1010.0	9.	253.
03:10-04:10	.000	20.0	73.	1010.0	10.	264.
03:40-04:40	.000	20.0	73.	1010.3	12.	272.
04:10-05:10	.000	19.8	75.	1010.9	13.	278.
04:40-05:40	.000	19.3	77.	1011.0	12.	280.
05:10-06:10	.000	18.9	78.	1011.0	10.	282.
05:40-06:40	.001	18.9	78.	1011.5	10.	289.
06:10-07:10	.005	19.4	78.	1012.0	10.	298.
06:40-07:40	.011	20.6	73.	1012.0	10.	292.
07:10-08:10	.019	22.1	68.	1012.4	10.	294.
07:40-08:40	.030	22.8	65.	1012.8	11.	292.
08:10-09:10	.040	23.1	64.	1012.5	11.	296.
08:40-09:40	.049	23.5	61.	1012.2	12.	289.
09:10-10:10	.057	23.8	60.	1012.0	14.	284.
09:40-10:40	.065	24.3	59.	1012.0	12.	293.
10:10-11:10	.072	24.7	59.	1012.1	11.	297.
10:40-11:40	.078	24.9	57.	1012.1	12.	296.
11:10-12:10	.084	25.2	55.	1012.1	11.	301.
11:40-12:40	.088	25.9	53.	1012.0	9.	303.
12:10-13:10	.092	26.5	51.	1012.0	10.	304.
12:40-13:40	.074	26.2	51.	1012.0	9.	310.
13:10-14:10	.050	25.3	54.	1012.0	8.	315.
13:40-14:40	.039	24.5	56.	1012.0	6.	319.
14:10-15:10	.039	24.5	57.	1011.9	4.	319.
14:40-15:40	.055	26.0	53.	1011.5	4.	313.
15:10-16:10	.052	26.7	51.	1011.1	5.	304.
15:40-16:40	.044	26.4	51.	1011.0	4.	299.
16:10-17:10	.058	27.6	49.	1011.0	5.	303.
16:40-17:40	.059	28.3	47.	1011.0	4.	308.
17:10-18:10	.042	27.3	50.	1010.7	3.	320.
17:40-18:40	.027	25.6	54.	1010.2	2.	330.
18:10-19:10	.019	24.3	59.	1010.0	3.	346.
18:40-19:40	.018	24.0	60.	1010.0	2.	346.
19:10-20:10	.012	23.5	60.	1010.0	1.	299.
19:40-20:40	.003	22.1	62.	1010.0	2.	269.
20:10-21:10	.001	21.3	63.	1010.0	1.	293.
20:40-21:40	.000	20.3	67.	1010.0	1.	354.
21:10-22:10	.000	19.1	74.	1010.4	4.	6.
21:40-22:40	.000	18.5	79.	1010.9	3.	2.
22:10-23:10	.000	18.0	82.	1011.0	0.	220.
22:40-23:40	.000	16.9	87.	1011.0	0.	287.
23:10-00:10	.000	16.0	90.	1011.4	0.	286.
23:40-00:40	.000	15.4	91.	1011.8	1.	194.
84/07/17						
00:10-01:10	.000	14.9	92.	1011.9	1.	187.
00:40-01:40	.000	14.6	92.	1011.9	3.	184.
01:10-02:10	.000	14.4	91.	1011.6	4.	175.
01:40-02:40	.000	14.6	90.	1011.6	5.	181.
02:10-03:10	.000	14.9	88.	1011.9	7.	188.
02:40-03:40	.000	15.0	88.	1011.8	8.	190.
03:10-04:10	.000	14.6	88.	1011.4	7.	195.

Time	SolarRad	Temp	Humidity	Barom	Wind-Spd	Wind-Dir
[redacted]40-04:40	.000	14.4	88.	1011.2	6.	196.
[redacted]40-05:10	.000	14.3	87.	1011.5	7.	200.
04:40-05:40	.000	14.2	86.	1011.9	9.	199.
[redacted]10-06:10	.000	14.1	87.	1011.9	10.	197.
[redacted]40-06:40	.001	14.4	87.	1011.9	9.	196.
06:10-07:10	.004	15.1	87.	1012.0	9.	195.
06:40-07:40	.006	16.2	85.	1012.0	11.	198.
[redacted]10-08:10	.011	17.4	82.	1012.0	13.	200.
[redacted]40-08:40	.013	18.2	79.	1011.8	14.	203.
08:10-09:10	.011	18.7	77.	1011.3	15.	202.
[redacted]10-09:40	.011	19.3	75.	1011.0	18.	200.
[redacted]10-10:10	.013	19.9	72.	1011.0	20.	202.
09:40-10:40	.020	21.1	66.	1011.0	22.	209.
[redacted]10-11:10	.034	22.1	61.	1010.9	26.	213.
[redacted]40-11:40	.016	21.8	61.	1010.6	22.	213.
11:10-12:10	.006	20.9	67.	1010.5	15.	221.
11:40-12:40	.010	19.9	74.	1010.4	16.	220.
[redacted]10-13:10	.019	19.6	79.	1010.0	21.	207.
[redacted]40-13:40	.054	20.8	77.	1009.9	24.	209.
13:10-14:10	.090	22.7	71.	1009.5	27.	217.
[redacted]40-14:40	.087	23.8	65.	1009.1	28.	218.
[redacted]10-15:10	.080	24.3	63.	1008.8	29.	215.
14:40-15:40	.069	24.6	62.	1008.3	33.	208.
15:10-16:10	.066	24.9	62.	1007.5	36.	203.
[redacted]0-16:40	.051	24.5	63.	1006.9	37.	204.
16:10-17:10	.012	21.0	78.	1006.9	17.	229.
16:40-17:40	-	-	-	-	-	-
[redacted]0-18:10	-	-	-	-	-	-
[redacted]0-18:40	.013	18.3	100.	1006.1	6.	217.
18:10-19:10	.016	19.0	100.	1006.3	2.	175.
[redacted]0-19:40	.006	19.0	100.	1006.7	8.	180.
[redacted]0-20:10	.003	18.3	97.	1007.0	15.	196.
19:40-20:40	.004	18.2	92.	1007.4	18.	196.
20:10-21:10	.003	18.1	91.	1007.9	16.	192.
[redacted]0-21:40	.001	17.8	92.	1008.0	11.	192.
21:10-22:10	.000	17.6	92.	1008.4	9.	199.
21:40-22:40	.000	17.5	91.	1008.8	8.	208.
[redacted]0-23:10	.000	17.3	89.	1009.0	5.	223.
[redacted]0-23:40	.000	17.2	84.	1009.0	6.	266.
23:10-00:10	.000	16.9	79.	1009.0	7.	275.
[redacted]0-00:40	.000	16.1	81.	1009.1	3.	268.
[redacted]7/18						
00:10-01:10	.000	15.3	83.	1009.1	2.	253.
00:40-01:40	.000	14.8	84.	1009.5	2.	261.
[redacted]0-02:10	.000	14.7	84.	1009.9	1.	264.
[redacted]0-02:40	.000	14.7	83.	1009.9	1.	250.
02:10-03:10	.000	14.3	85.	1009.9	1.	244.
[redacted]0-03:40	.000	13.7	88.	1009.9	0.	266.
[redacted]0-04:10	.000	13.4	89.	1009.9	1.	257.
03:40-04:40	.000	12.8	90.	1010.0	1.	219.
[redacted]0-05:10	.000	12.1	93.	1010.0	1.	206.
[redacted]0-05:40	.000	12.5	92.	1010.0	0.	247.
05:10-06:10	.000	13.5	88.	1010.0	1.	246.
05:40-06:40	.000	14.3	86.	1010.1	2.	282.
[redacted]0-07:10	.002	15.2	84.	1010.4	5.	288.

Time	SolarRad	Temp	Humidity	Barom	Wind-Spd	Wind-Dir
06:40-07:40	.005	15.9	93.	1010.8	7.	291.
07:10-08:10	.010	16.5	92.	1011.0	6.	296.
07:40-08:40	.011	17.0	91.	1011.1	4.	311.
08:10-09:10	.010	17.1	92.	1011.6	4.	316.
08:40-09:40	.011	17.3	92.	1012.0	4.	317.
09:10-10:10	.015	17.4	91.	1012.0	4.	321.
09:40-10:40	.023	17.4	93.	1012.1	7.	329.
10:10-11:10	.044	18.1	92.	1012.5	9.	334.
10:40-11:40	.060	19.3	76.	1012.9	11.	336.
11:10-12:10	.061	19.6	74.	1013.0	16.	341.
11:40-12:40	.072	19.7	74.	1013.1	22.	347.
12:10-13:10	.082	19.8	74.	1013.6	27.	354.
12:40-13:40	.074	19.6	75.	1014.0	29.	1.

7.B. ADDITIONAL METEOROLOGICAL DATA: COURTRIGHT

SARNIA_84 : 0000

Start: 84/06/23 12:19 Scan: 300 sec
Average: 60.00 min Report: 30.00 min
Loc: Courtright - MOE Station ... all acquired data

Time	Temp-H	Wspd-H	Wdir-H	SolarRad	Temp	Humidity	Barom	Wind-Spd	Wind-Dir
23:19-13:19	-	-	-	.835	25.4	75.	1011.0	16.	170.
23:49-13:49	-	-	-	.834	24.8	76.	1010.6	14.	174.
23:19-14:19	-	-	-	.846	25.2	77.	1010.1	14.	175.
23:49-14:49	-	-	-	.838	24.7	79.	1010.0	15.	179.
24:19-15:19	-	-	-	.828	23.9	80.	1010.0	13.	184.
24:49-15:49	-	-	-	.847	24.9	78.	1009.9	11.	184.
25:19-16:19	-	-	-	.857	26.3	73.	1009.4	11.	176.
25:49-16:49	-	-	-	.858	26.8	72.	1009.0	12.	173.
26:19-17:19	-	-	-	.848	26.0	75.	1009.0	14.	191.
26:49-17:49	-	-	-	.823	24.7	78.	1008.7	16.	205.
27:19-18:19	-	-	-	.821	24.6	78.	1008.2	14.	198.
27:49-18:49	-	-	-	.819	24.9	77.	1008.0	15.	176.
28:19-19:19	-	-	-	.810	24.7	77.	1008.0	16.	171.
28:49-19:49	-	-	-	.804	24.7	79.	1008.0	17.	165.
29:19-20:19	-	-	-	.801	23.4	88.	1007.9	18.	160.
29:49-20:49	-	-	-	.801	21.5	99.	1007.8	19.	164.
30:19-21:19	-	-	-	.000	20.1	-	1007.8	11.	179.
30:49-21:49	-	-	-	.000	19.1	-	1008.0	1.	171.
31:19-22:19	-	-	-	.000	19.2	100.	1007.8	3.	110.
31:49-22:49	-	-	-	.000	19.3	-	1007.4	4.	131.
32:19-23:19	-	-	-	.000	19.5	-	1007.1	5.	139.
32:49-23:49	-	-	-	.000	19.6	100.	1007.0	9.	160.
33:19-00:19	-	-	-	.000	19.2	100.	1007.0	10.	177.
33:49-00:49	-	-	-	.000	18.9	100.	1006.7	8.	200.
84/06/24									
34:19-01:19	-	-	-	.000	19.0	100.	1006.2	6.	219.
34:49-01:49	-	-	-	.000	19.0	100.	1006.0	2.	237.
35:19-02:19	-	-	-	.000	19.0	100.	1006.0	2.	258.
35:49-02:49	-	-	-	.000	19.0	100.	1006.0	2.	251.
36:19-03:19	-	-	-	.000	19.0	100.	1006.0	4.	236.
36:49-03:49	-	-	-	.000	18.9	100.	1006.0	6.	257.
37:19-04:19	-	-	-	.000	19.0	100.	1006.0	8.	262.
37:49-04:49	-	-	-	.000	19.0	100.	1005.9	9.	259.
38:19-05:19	-	-	-	.000	18.8	100.	1005.7	9.	258.
38:49-05:49	-	-	-	.000	18.6	100.	1005.0	10.	250.
39:19-06:19	-	-	-	.000	18.7	100.	1006.0	13.	257.
39:49-06:49	-	-	-	.003	18.3	100.	1006.0	12.	256.
40:19-07:19	-	-	-	.005	18.7	100.	1006.5	11.	252.
40:49-07:49	-	-	-	.006	19.0	100.	1006.9	13.	260.
41:19-08:19	-	-	-	.015	19.9	99.	1007.0	15.	268.
41:49-08:49	-	-	-	.016	20.2	97.	1007.4	16.	277.
42:19-09:19	-	-	-	.027	20.6	92.	1007.6	17.	285.
42:49-09:49	-	-	-	.051	21.7	86.	1007.3	19.	289.
43:19-10:19	-	-	-	.060	22.3	83.	1007.5	20.	299.
43:49-10:49	-	-	-	-	-	-	-	-	-
44:19-11:19	-	-	-	-	-	-	-	-	-
44:49-11:49	-	-	-	-	-	-	-	-	-
45:19-12:19	-	-	-	.071	23.0	73.	1008.6	23.	288.
45:49-12:49	-	-	-	.091	23.5	70.	1008.9	24.	285.
46:19-13:19	-	-	-	.095	23.6	66.	1008.9	26.	285.
46:49-13:49	-	-	-	.098	23.8	61.	1009.0	29.	288.

SR[redacted]KA_34 r 0009

Time	Temp-H	Wspd-H	Wdir-H	SolarRad	Temp	Humidity	Barom	Wind-Spd	Wind-Dir
[redacted]13:49-14:19	-	-	-	.897	23.8	56.	1009.3	38.	292.
13:49-14:49	-	-	-	.102	23.6	53.	1009.1	38.	297.
14:[redacted]-15:19	-	-	-	.106	23.6	53.	1009.2	29.	304.
14:[redacted]-15:49	-	-	-	.894	23.6	49.	1009.3	27.	308.
15:19-16:19	-	-	-	.884	23.7	48.	1009.3	26.	300.
15:[redacted]-16:49	-	-	-	.877	23.7	47.	1009.6	26.	304.
16:[redacted]-17:19	-	-	-	.859	23.8	46.	1009.7	23.	308.
16:49-17:49	-	-	-	.845	23.7	46.	1009.9	21.	301.
17:[redacted]-18:19	-	-	-	.849	23.9	46.	1009.9	28.	305.
17:[redacted]-18:49	-	-	-	.845	24.1	45.	1009.9	28.	299.
18:19-19:19	-	-	-	.833	23.7	46.	1009.9	19.	298.
18:49-19:49	-	-	-	.821	23.2	47.	1009.9	16.	288.
19:[redacted]-20:19	-	-	-	.808	22.2	50.	1010.1	19.	284.
19:49-20:49	-	-	-	.803	19.4	63.	1010.8	24.	277.
20:19-21:19	-	-	-	.802	16.6	79.	1011.1	15.	267.
20:[redacted]-21:49	-	-	-	.808	16.1	81.	1011.8	8.	253.
21:[redacted]-22:19	-	-	-	.808	16.9	76.	1011.5	12.	278.
21:49-22:49	-	-	-	.809	17.8	76.	1011.9	12.	272.
22:[redacted]-23:19	-	-	-	.800	16.8	82.	1012.8	8.	257.
22:[redacted]-23:49	-	-	-	.808	15.5	85.	1012.8	4.	263.
23:19-00:19	-	-	-	.808	15.6	85.	1012.1	3.	315.
23:[redacted]-00:49	-	-	-	.800	15.7	84.	1012.3	2.	320.
06/[redacted]/25									
00:19-01:19	-	-	-	.808	15.3	86.	1012.5	3.	301.
00:49-01:49	-	-	-	.800	14.5	92.	1012.3	3.	289.
01:[redacted]-02:19	-	-	-	.808	13.8	97.	1012.1	3.	265.
01:49-02:49	-	-	-	.808	13.4	98.	1012.1	5.	260.
02:19-03:19	-	-	-	.800	13.1	98.	1012.8	5.	262.
02:[redacted]-03:49	-	-	-	.808	12.8	99.	1012.8	5.	260.
03:[redacted]-04:19	-	-	-	.800	12.6	99.	1012.8	4.	262.
03:49-04:49	-	-	-	.800	12.5	99.	1012.8	3.	280.
04:[redacted]-05:19	-	-	-	.800	12.2	100.	1012.1	2.	279.
04:[redacted]-05:49	-	-	-	.800	12.0	100.	1012.4	2.	271.
05:19-06:19	-	-	-	.801	12.1	100.	1012.9	3.	280.
05:[redacted]-06:49	-	-	-	.805	12.6	96.	1013.0	4.	279.
06:[redacted]-07:19	-	-	-	.811	13.6	93.	1013.3	6.	299.
06:49-07:49	-	-	-	.821	14.8	88.	1013.0	12.	305.
07:19-08:19	-	-	-	.834	16.4	84.	1013.3	11.	319.
07:[redacted]-08:49	-	-	-	.844	17.9	80.	1013.3	8.	324.
08:19-09:19	-	-	-	.854	18.7	77.	1013.3	9.	312.
08:49-09:49	-	-	-	.865	19.5	73.	1013.3	11.	308.
09:[redacted]-10:19	-	-	-	.874	20.1	67.	1013.3	13.	310.
09:[redacted]-10:49	-	-	-	.883	21.0	61.	1013.0	15.	314.
10:19-11:19	-	-	-	.888	22.0	56.	1013.3	14.	322.
10:[redacted]-11:49	-	-	-	.872	21.6	55.	1013.2	19.	318.
11:[redacted]-12:19	-	-	-	-	-	-	-	-	-
11:49-12:49	-	-	-	-	-	-	-	-	-
12:[redacted]-13:19	-	-	-	.898	21.6	52.	1013.2	23.	315.
12:[redacted]-13:49	-	-	-	.888	21.7	50.	1013.2	24.	315.
13:19-14:19	-	-	-	-	-	-	-	-	-
13:49-14:49	-	-	-	-	-	-	-	-	-
14:[redacted]-15:19	-	-	-	-	-	-	-	-	-
14:[redacted]-15:49	-	-	-	-	-	-	-	-	-
15:19-16:19	-	-	-	-	-	-	-	-	-
15:[redacted]-16:49	-	-	-	-	-	-	-	-	-

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Time	Temp-H	Wspd-H	Wdir-H	SolarRad	Temp	Humidity	Baros	Wind-Spd	Wind-Dir
6:19-17:19	-	-	-	-	-	-	-	-	-
6:49-17:49	-	-	-	-	-	-	-	-	-
7:19-18:19	-	-	-	-	-	-	-	-	-
7:49-18:49	19.1	11.	356.	.044	24.2	58.	1012.9	6.	32.
8:19-19:19	19.0	11.	356.	.036	23.9	58.	1012.9	5.	27.
8:49-19:49	18.7	14.	1.	.028	23.2	54.	1013.0	7.	34.
9:19-20:19	17.8	16.	10.	.019	21.7	60.	1013.0	8.	44.
9:49-20:49	16.9	15.	15.	.010	19.8	67.	1013.0	7.	50.
0:19-21:19	16.5	14.	20.	.004	17.8	75.	1013.0	4.	54.
0:49-21:49	16.3	14.	23.	.001	16.0	83.	1013.3	2.	57.
1:19-22:19	16.3	13.	23.	.000	14.8	88.	1013.7	1.	45.
1:49-22:49	16.1	11.	17.	.000	14.3	91.	1014.0	2.	28.
2:19-23:19	15.5	12.	13.	.000	14.1	92.	1014.0	2.	30.
2:49-23:49	15.2	17.	20.	.000	13.5	96.	1014.0	1.	33.
3:19-00:19	15.1	21.	24.	.000	12.6	99.	1014.0	1.	37.
3:49-00:49	15.0	21.	31.	.000	12.0	100.	1014.0	0.	61.
4/06/26									
4:19-01:19	14.8	20.	35.	.000	11.6	100.	1014.0	0.	77.
4:49-01:49	14.4	18.	36.	.000	11.1	100.	1014.0	0.	42.
5:19-02:19	14.2	17.	43.	.000	10.9	100.	1014.0	0.	76.
5:49-02:49	14.1	14.	47.	.000	11.0	100.	1014.0	0.	72.
6:19-03:19	13.9	11.	58.	.000	10.9	100.	1014.0	0.	42.
6:49-03:49	13.7	9.	62.	.000	10.7	100.	1014.0	0.	349.
7:19-04:19	13.8	11.	74.	.000	10.5	100.	1014.0	0.	329.
7:49-04:49	13.7	14.	83.	.000	10.2	100.	1013.7	0.	329.
8:19-05:19	13.4	15.	88.	.000	9.9	100.	1013.7	0.	337.
8:49-05:49	13.3	11.	97.	.000	9.7	100.	1013.9	0.	296.
9:19-06:19	13.2	8.	116.	.001	9.7	100.	1014.0	1.	294.
9:49-06:49	13.2	6.	149.	.005	10.3	100.	1014.0	1.	284.
0:19-07:19	13.4	9.	185.	.010	11.1	100.	1014.0	1.	279.
0:49-07:49	14.0	12.	200.	.019	12.6	99.	1014.0	0.	274.
1:19-08:19	14.5	12.	217.	.032	14.0	96.	1014.0	0.	287.
1:49-08:49	14.7	11.	225.	.042	16.6	92.	1014.0	1.	219.
2:19-09:19	15.3	8.	223.	.053	18.7	84.	1014.0	2.	229.
2:49-09:49	16.5	7.	226.	.064	21.3	73.	1014.0	3.	253.
3:19-10:19	17.8	8.	226.	.074	23.2	63.	1013.9	6.	259.
3:49-10:49	18.7	11.	225.	.082	23.8	57.	1013.4	8.	249.
4:19-11:19	19.4	15.	218.	.089	23.6	55.	1013.0	11.	234.
4:49-11:49	19.9	17.	216.	.095	23.6	52.	1013.0	13.	235.
5:19-12:19	-	-	-	-	-	-	-	-	-
5:49-12:49	-	-	-	-	-	-	-	-	-
6:19-13:19	-	-	-	-	-	-	-	-	-
6:49-13:49	-	-	-	-	-	-	-	-	-
7:19-14:19	-	-	-	-	-	-	-	-	-
7:49-14:49	-	-	-	-	-	-	-	-	-
8:19-15:19	22.2	28.	201.	.098	25.9	47.	1011.8	15.	205.
8:49-15:49	22.2	24.	185.	.093	24.4	47.	1010.9	20.	195.
19-16:19	22.1	29.	174.	.091	24.1	45.	1010.5	23.	173.
49-16:49	22.1	31.	172.	.084	24.2	44.	1010.1	24.	171.
19-17:19	22.3	32.	172.	.077	24.2	43.	1009.6	24.	172.
49-17:49	22.5	30.	176.	.064	24.2	42.	1009.1	22.	177.
19-18:19	22.7	29.	179.	.047	24.0	43.	1008.9	19.	181.
49-18:49	22.8	28.	177.	.032	23.9	44.	1008.4	18.	179.
19-19:19	22.8	26.	175.	.024	23.6	46.	1008.0	17.	178.
49-19:49	22.8	28.	174.	.024	23.4	52.	1007.7	16.	175.

[redacted]IA_84 : 8886

Time	Temp-H	Wspd-H	Wdir-H	SolarRad	Temp	Humidity	Barom	Wind-Spd	Wind-Dir
[redacted]19-20:19	22.3	30.	175.	.319	23.4	51.	1007.2	17.	177.
19:49-20:49	22.7	32.	174.	.289	23.1	51.	1006.7	19.	179.
20[redacted]-21:19	22.1	32.	169.	.303	22.1	55.	1006.6	17.	172.
20[redacted]-21:49	21.1	33.	161.	.300	21.8	58.	1006.9	16.	164.
21:19-22:19	20.1	33.	156.	.309	20.4	57.	1006.9	16.	164.
21[redacted]-22:49	19.4	34.	158.	.300	19.9	61.	1006.7	17.	164.
22[redacted]-23:19	19.1	36.	160.	.300	19.4	65.	1006.2	17.	166.
22:49-23:49	18.9	35.	161.	.300	19.2	66.	1006.0	16.	169.
23[redacted]-00:19	18.7	27.	168.	.300	18.7	75.	1005.9	10.	171.
23[redacted]-00:49	18.7	22.	151.	.300	18.1	83.	1005.3	7.	158.
84/05/27									
00:19-01:19	19.3	29.	152.	.300	18.7	81.	1004.4	14.	147.
00[redacted]-01:49	20.1	33.	163.	.300	19.3	81.	1003.7	16.	157.
01:19-02:19	20.6	34.	177.	.300	19.5	84.	1003.2	15.	167.
01:49-02:49	21.3	35.	185.	.300	20.2	84.	1003.0	19.	181.
02[redacted]-03:19	21.3	36.	190.	.300	20.9	82.	1002.5	21.	191.
02[redacted]-03:49	20.9	36.	193.	.300	20.9	82.	1002.0	21.	193.
03:19-04:19	20.8	34.	195.	.300	20.9	83.	1001.7	21.	193.
03[redacted]-04:49	20.8	33.	195.	.300	20.9	83.	1001.2	22.	193.
04[redacted]-05:19	20.6	38.	193.	.300	20.6	84.	1000.8	23.	198.
04:49-05:49	20.5	38.	191.	.300	20.6	84.	1000.5	23.	193.
05:[redacted]-06:19	20.5	37.	194.	.300	20.8	84.	1000.5	24.	198.
05[redacted]-06:49	20.3	36.	199.	.301	20.6	86.	1000.5	23.	203.
06:19-07:19	19.7	36.	201.	.302	19.9	92.	1000.2	23.	203.
06:49-07:49	19.3	37.	198.	.303	19.5	97.	1000.0	22.	198.
07[redacted]-08:19	19.2	35.	197.	.305	19.3	99.	1000.1	22.	194.
07[redacted]-08:49	-	-	-	-	-	-	-	-	-
08:19-09:19	-	-	-	-	-	-	-	-	-
08[redacted]-09:49	-	-	-	-	-	-	-	-	-
09[redacted]-10:19	-	-	-	-	-	-	-	-	-
09:49-10:49	-	-	-	-	-	-	-	-	-
10[redacted]-11:19	-	-	-	-	-	-	-	-	-
10[redacted]-11:49	-	-	-	-	-	-	-	-	-
11:19-12:19	-	-	-	-	-	-	-	-	-
11[redacted]-12:49	20.8	38.	248.	.184	24.4	71.	999.9	24.	278.
12[redacted]-13:19	21.5	41.	249.	.187	24.9	65.	999.8	31.	269.
12:49-13:49	22.8	45.	248.	.187	25.2	59.	999.6	35.	268.
13:19-14:19	-	-	-	-	-	-	-	-	-
13[redacted]-14:49	-	-	-	-	-	-	-	-	-
14[redacted]-15:19	-	-	-	-	-	-	-	-	-
14:49-15:49	-	-	-	-	-	-	-	-	-
15[redacted]-16:19	-	-	-	-	-	-	-	-	-
15[redacted]-16:49	-	-	-	-	-	-	-	-	-
16:19-17:19	-	-	-	-	-	-	-	-	-
16[redacted]-17:49	-	-	-	-	-	-	-	-	-
17[redacted]-18:19	20.6	32.	254.	.312	22.2	68.	1003.1	21.	274.
17:49-18:49	20.4	30.	256.	.308	21.8	61.	1003.6	20.	276.
18[redacted]-19:19	20.4	33.	257.	.309	21.7	61.	1004.0	22.	276.
18[redacted]-19:49	20.2	33.	263.	.309	21.5	62.	1004.5	23.	281.
19:19-20:19	19.9	31.	262.	.307	21.1	65.	1005.0	21.	282.
19:49-20:49	19.4	31.	256.	.305	20.7	68.	1005.5	20.	276.
20[redacted]-21:19	18.8	30.	254.	.303	20.0	73.	1006.0	17.	274.
20[redacted]-21:49	18.6	28.	252.	.301	19.3	77.	1006.0	12.	274.
21:19-22:19	18.7	27.	251.	.300	18.8	80.	1006.2	9.	270.
21[redacted]-22:49	18.6	28.	252.	.299	18.4	82.	1006.7	8.	267.

IA_S4 : 0005

	Temp-H	Wspd-H	Wdir-H	SolarRad	Temp	Humidity	Baros	Wind-Spd	Wind-Dir
9-23:19	18.5	29.	254.	.000	19.3	92.	1007.3	9.	270.
9-23:49	-	-	-	-	-	-	-	-	-
9-00:19	-	-	-	-	-	-	-	-	-
9-00:49	-	-	-	-	-	-	-	-	-
6/28									
9-01:19	-	-	-	-	-	-	-	-	-
9-01:49	17.5	18.	243.	.000	17.4	98.	1009.0	3.	227.
9-02:19	17.3	22.	241.	.000	16.5	92.	1008.1	4.	237.
9-02:49	17.4	26.	241.	.000	16.2	94.	1008.4	4.	222.
9-03:19	17.5	30.	244.	.000	16.8	94.	1008.8	5.	240.
9-03:49	17.5	30.	244.	.000	16.1	94.	1009.0	5.	239.
9-04:19	17.5	29.	245.	.000	16.4	93.	1009.0	4.	248.
9-04:49	17.2	28.	250.	.000	16.4	94.	1009.0	5.	249.
9-05:19	16.6	26.	252.	.000	16.1	96.	1009.0	4.	256.
9-05:49	16.4	26.	257.	.000	15.7	97.	1009.2	3.	273.
9-06:19	16.5	27.	270.	.000	15.5	98.	1009.6	3.	291.
9-06:49	16.5	26.	280.	.000	15.2	99.	1009.8	3.	275.
9-07:19	16.4	23.	280.	.001	14.9	100.	1010.0	2.	259.
9-07:49	16.3	21.	275.	.004	15.1	100.	1010.3	1.	248.
9-08:19	16.2	20.	273.	.008	15.7	99.	1010.7	1.	247.
9-08:49	16.1	20.	272.	.010	16.7	96.	1011.0	2.	258.
9-09:19	16.1	15.	265.	.031	18.6	90.	1011.0	4.	263.
9-09:49	16.6	9.	257.	.045	20.7	83.	1011.0	3.	270.
9-10:19	18.1	9.	254.	.064	23.0	73.	1011.0	5.	276.
9-10:49	19.5	13.	254.	.079	24.3	66.	1011.0	10.	278.
9-11:19	20.2	17.	256.	.083	24.1	63.	1011.0	14.	284.
9-11:49	20.7	20.	251.	.083	24.7	59.	1011.0	16.	274.
9-12:19	21.3	22.	250.	.087	25.3	55.	1011.1	17.	273.
9-12:49	21.8	23.	260.	.092	25.1	51.	1011.3	19.	285.
9-13:19	22.3	26.	261.	.095	25.3	49.	1011.5	21.	284.
9-13:49	22.6	27.	263.	.101	25.3	47.	1011.8	22.	286.
9-14:19	22.8	27.	268.	.112	25.4	46.	1010.5	23.	292.
9-14:49	23.1	26.	266.	.108	26.0	45.	1010.7	22.	289.
9-15:19	23.4	26.	262.	.098	26.5	44.	1011.0	21.	284.
9-15:49	23.7	27.	264.	.092	26.7	43.	1011.0	21.	286.
9-16:19	23.9	24.	269.	.088	26.7	43.	1011.0	20.	288.
9-16:49	24.1	22.	271.	.083	26.8	43.	1010.9	18.	292.
9-17:19	24.3	20.	274.	.072	26.8	43.	1010.9	16.	298.
9-17:49	24.3	18.	281.	.064	26.9	43.	1010.7	14.	303.
9-18:19	24.4	16.	282.	.059	27.2	43.	1010.4	12.	305.
9-18:49	24.3	16.	296.	.051	27.6	44.	1010.4	10.	316.
9-19:19	24.0	16.	322.	.041	28.2	44.	1010.6	8.	347.
9-19:49	23.3	17.	334.	.030	28.3	45.	1010.8	7.	5.
9-20:19	23.5	19.	338.	.020	27.4	47.	1011.0	7.	9.
9-20:49	22.7	16.	359.	.010	25.4	54.	1011.1	6.	28.
9-21:19	21.7	16.	22.	.004	23.1	63.	1011.5	3.	52.
9-21:49	21.1	19.	23.	.001	20.9	70.	1012.0	1.	40.
9-22:19	20.7	21.	25.	.000	19.1	76.	1012.3	1.	28.
9-22:49	20.5	22.	34.	.000	18.8	80.	1012.8	1.	23.
9-23:19	19.7	26.	17.	.000	17.8	79.	1013.3	4.	26.
9-23:49	17.9	30.	2.	.000	18.0	78.	1013.7	6.	21.
9-00:19	16.4	28.	1.	.000	17.6	84.	1014.0	6.	14.
9-00:49	16.0	29.	5.	.000	16.7	89.	1014.0	5.	17.
06/29									
9-01:19	16.1	27.	11.	.000	15.7	94.	1014.1	3.	30.

Time	Temp-H	Wspd-H	Wdir-H	SolarRad	Temp	Humidity	Baros	Wind-Spd	Wind-Dir
[illegible]9-04:49	13.9	23.	11.	.000	15.8	88.	1815.9	9.	42.
04[illegible]-05:19	13.6	22.	8.	.000	15.4	92.	1815.8	8.	38.
04:49-05:49	13.2	23.	3.	.000	14.4	97.	1815.9	5.	30.
05[illegible]-06:19	13.3	26.	358.	.001	13.5	100.	1816.0	2.	25.
05[illegible]-06:49	13.6	29.	355.	.004	13.9	99.	1816.0	4.	20.
06:19-07:19	13.7	26.	357.	.009	15.2	96.	1816.0	6.	21.
06:49-07:49	13.8	22.	3.	.018	16.5	93.	1816.0	7.	34.
07[illegible]-08:19	14.1	20.	7.	.038	17.9	90.	1816.1	10.	40.
07:49-08:49	14.6	18.	12.	.041	19.3	83.	1816.3	12.	45.
08:19-09:19	15.1	18.	13.	.053	20.5	78.	1816.7	12.	45.
08[illegible]-09:49	15.5	19.	4.	.061	21.6	74.	1816.9	11.	31.
09[illegible]-10:19	15.7	21.	354.	.065	22.1	72.	1817.0	12.	11.
09:49-10:49	15.7	25.	352.	.074	22.3	71.	1817.0	14.	5.
10[illegible]-11:19	15.8	28.	351.	.084	22.7	70.	1817.0	15.	5.
10[illegible]-11:49	15.9	29.	350.	.090	22.6	70.	1817.0	16.	4.
11:19-12:19	15.8	30.	348.	.096	22.4	71.	1817.0	17.	4.
11[illegible]-12:49	15.8	31.	349.	.104	22.4	71.	1817.0	18.	3.
12[illegible]-13:19	16.2	32.	350.	.109	22.7	71.	1817.0	18.	3.
12:49-13:49	16.5	32.	349.	.110	23.0	71.	1816.9	18.	2.
13[illegible]-14:19	16.8	32.	349.	.110	23.3	70.	1816.6	18.	4.
13[illegible]-14:49	17.3	32.	347.	.109	23.8	68.	1816.2	17.	4.
14:19-15:19	17.7	31.	346.	.105	24.1	66.	1816.0	16.	1.
14:49-15:49	17.9	32.	346.	.100	24.4	64.	1815.9	16.	3.
15[illegible]-16:19	18.1	34.	347.	.096	24.2	63.	1815.7	17.	5.
15[illegible]-16:49	18.1	34.	347.	.088	23.9	63.	1815.4	17.	4.
16:19-17:19	18.2	32.	348.	.079	23.9	64.	1815.2	17.	5.
16[illegible]-17:49	18.5	29.	351.	.069	24.0	64.	1815.1	15.	7.
17[illegible]-18:19	18.8	27.	354.	.059	24.3	65.	1815.0	13.	11.
17:49-18:49	18.9	30.	357.	.047	24.0	65.	1815.0	13.	15.
18[illegible]-19:19	18.6	32.	355.	.038	23.1	66.	1815.0	14.	11.
19[illegible]-19:49	18.3	32.	356.	.028	22.5	68.	1815.0	13.	16.
19:19-20:19	18.1	32.	358.	.021	22.1	70.	1815.0	12.	25.
19[illegible]-20:49	17.7	31.	356.	.014	21.3	73.	1815.0	11.	22.
20[illegible]-21:19	17.2	28.	354.	.005	19.9	78.	1815.1	8.	21.
20:49-21:49	16.9	23.	353.	.001	18.9	82.	1815.4	5.	21.
21:19-22:19	16.5	21.	351.	.000	18.1	87.	1815.8	5.	12.
21[illegible]-22:49	16.1	22.	350.	.000	17.6	90.	1815.9	5.	7.
22[illegible]-23:19	15.8	24.	351.	.000	17.2	92.	1816.0	7.	5.
22:49-23:49	15.7	27.	354.	.000	17.1	93.	1816.0	8.	6.
23[illegible]-00:19	15.7	30.	356.	.000	17.2	93.	1816.0	9.	10.
23[illegible]-00:49	15.9	30.	359.	.000	17.2	94.	1816.0	7.	13.
84/07/01									
00[illegible]-01:19	16.1	31.	359.	.000	17.4	94.	1816.0	7.	13.
00[illegible]-01:49	16.0	31.	359.	.000	17.2	95.	1816.0	7.	15.
01:19-02:19	15.9	26.	2.	.000	16.7	97.	1816.0	4.	21.
01:49-02:49	15.8	25.	3.	.000	16.3	98.	1816.0	2.	19.
02[illegible]-03:19	15.8	27.	3.	.000	16.0	99.	1816.0	2.	21.
02:49-03:49	15.8	28.	3.	.000	15.8	100.	1816.0	2.	29.
03:19-04:19	16.0	29.	2.	.000	15.9	99.	1816.0	2.	28.
03[illegible]-04:49	16.3	31.	5.	.000	16.0	98.	1816.0	2.	24.
04[illegible]-05:19	16.4	29.	5.	.000	15.7	98.	1816.0	2.	14.
04:49-05:49	16.1	28.	1.	.000	15.6	99.	1816.0	5.	5.
05[illegible]-06:19	15.8	28.	0.	.001	15.6	99.	1816.0	5.	4.
05[illegible]-06:49	15.5	24.	1.	.004	15.7	99.	1816.1	3.	9.
06:19-07:19	15.4	20.	359.	.009	16.7	95.	1816.5	3.	8.

ne	Temp-H	Wspd-H	Wdir-H	SolarRad	Temp	Humidity	Barom	Wind-Spd	Wind-Dir
:49-07:49	15.5	17.	359.	.019	16.2	89.	1016.9	4.	9.
:19-08:19	15.7	14.	357.	.031	19.9	83.	1017.0	4.	9.
:49-08:49	16.4	12.	351.	.041	21.6	78.	1017.0	5.	8.
:19-09:19	17.2	12.	338.	.052	23.2	72.	1017.2	6.	7.
:49-09:49	18.0	13.	352.	.062	24.9	67.	1017.4	7.	4.
:19-10:19	18.9	13.	351.	.071	26.1	62.	1017.6	7.	352.
:49-10:49	19.7	13.	355.	.078	26.4	59.	1017.8	8.	345.
:19-11:19	20.3	14.	352.	.076	27.0	57.	1018.0	8.	346.
:49-11:49	20.9	16.	349.	.091	27.9	53.	1018.0	9.	347.
:19-12:19	21.5	19.	338.	.098	29.0	50.	1018.0	10.	354.
:49-12:49	21.8	21.	350.	.103	29.7	49.	1018.0	11.	0.
:19-13:19	22.0	20.	348.	.100	29.6	48.	1017.9	11.	360.
:49-13:49	22.1	21.	342.	.106	29.6	47.	1017.8	11.	1.
:19-14:19	22.2	24.	342.	.113	30.0	46.	1017.3	12.	1.
:49-14:49	22.3	25.	348.	.110	29.8	45.	1017.0	13.	2.
:19-15:19	22.5	27.	351.	.106	29.3	45.	1017.0	14.	5.
:49-15:49	22.6	27.	349.	.101	29.4	44.	1016.9	14.	5.
:19-16:19	22.8	25.	347.	.091	29.2	43.	1016.8	14.	4.
:49-16:49	23.0	24.	347.	.085	29.0	43.	1016.6	13.	5.
:19-17:19	23.1	24.	349.	.081	29.3	43.	1016.4	12.	6.
:49-17:49	23.3	23.	352.	.069	29.1	43.	1016.1	11.	6.
:19-18:19	23.2	23.	356.	.059	28.7	43.	1016.0	11.	4.
:49-18:49	23.1	23.	3.	.051	28.6	44.	1016.0	10.	10.
19-19:19	22.9	21.	8.	.041	28.3	45.	1016.2	9.	28.
49-19:49	22.4	19.	10.	.030	27.5	47.	1016.5	8.	30.
19-20:19	21.8	16.	13.	.019	25.9	54.	1016.8	6.	29.
49-20:49	20.9	12.	10.	.009	23.4	63.	1016.9	4.	11.
19-21:19	20.1	10.	20.	.005	21.2	72.	1017.0	2.	17.
49-21:49	19.4	9.	26.	.001	19.4	81.	1017.0	0.	50.
19-22:19	19.0	8.	13.	.000	18.1	87.	1017.2	0.	42.
49-22:49	18.6	5.	4.	.000	17.2	92.	1017.6	0.	359.
19-23:19	18.5	4.	7.	.000	16.4	96.	1017.7	0.	85.
49-23:49	18.6	2.	343.	.000	16.0	98.	1017.5	1.	280.
19-00:19	18.6	1.	284.	.000	15.8	99.	1017.6	1.	280.
49-00:49	18.7	1.	255.	.000	15.6	100.	1017.8	0.	293.
07/02									
19-01:19	18.7	3.	241.	.000	15.7	100.	1017.9	1.	296.
49-01:49	18.9	5.	238.	.000	15.6	100.	1018.0	0.	293.
19-02:19	19.3	3.	241.	.000	15.6	100.	1018.0	0.	0.
49-02:49	19.6	5.	257.	.000	15.8	100.	1018.0	0.	42.
19-03:19	19.9	6.	260.	.000	15.9	100.	1018.0	0.	39.
49-03:49	20.0	5.	261.	.000	15.8	100.	1017.9	0.	251.
19-04:19	19.5	9.	256.	.000	15.6	100.	1017.9	0.	277.
49-04:49	19.5	8.	254.	.000	15.3	100.	1017.9	0.	281.
19-05:19	19.7	7.	262.	.000	14.8	100.	1017.9	0.	139.
49-05:49	19.9	6.	265.	.000	14.2	100.	1018.0	0.	147.
19-06:19	20.4	6.	265.	.001	14.0	100.	1018.0	0.	56.
49-06:49	20.6	4.	257.	.003	14.1	100.	1018.0	1.	119.
19-07:19	20.4	2.	221.	.007	15.1	100.	1018.0	1.	151.
49-07:49	20.5	5.	215.	.016	16.9	98.	1018.3	0.	231.
19-08:19	20.3	7.	224.	.028	18.9	93.	1018.4	0.	171.
49-08:49	19.8	8.	206.	.040	20.8	91.	1018.5	3.	178.
19-09:19	19.9	9.	195.	.051	21.2	84.	1018.6	4.	178.
49-09:49	20.6	8.	198.	.060	22.8	74.	1018.7	4.	171.
19-10:19	21.3	7.	191.	.069	24.0	68.	1018.3	6.	169.

[redacted]	Temp-H	Wspd-H	Wdir-H	SolarRad	Temp	Humidity	Barom	Wind-Spd	Wind-Dir
[redacted]10:49	22.1	6.	189.	.877	25.1	63.	1015.1	7.	178.
[redacted]11:19	22.9	5.	184.	.884	26.3	61.	1015.3	6.	172.
[redacted]11:49	23.5	9.	178.	.891	26.7	60.	1015.3	7.	175.
[redacted]12:19	23.9	12.	174.	.101	27.1	58.	1017.9	9.	177.
[redacted]12:49	24.1	11.	183.	.899	27.4	56.	1017.5	8.	186.
[redacted]13:19	-	-	-	-	-	-	-	-	-
[redacted]13:49	-	-	-	-	-	-	-	-	-
[redacted]14:19	-	-	-	-	-	-	-	-	-
[redacted]14:49	25.1	12.	175.	.857	27.6	52.	1017.3	10.	177.
[redacted]15:19	25.3	11.	190.	.871	28.3	49.	1016.9	9.	192.
[redacted]15:49	25.5	11.	196.	.854	28.3	47.	1016.6	7.	224.
[redacted]16:19	25.5	11.	282.	.843	28.8	48.	1016.2	7.	287.
[redacted]16:49	25.4	15.	221.	.835	28.2	49.	1016.8	9.	241.
[redacted]17:19	25.8	19.	223.	.823	27.6	51.	1016.9	12.	247.
[redacted]17:49	24.6	17.	212.	.818	26.5	56.	1016.8	8.	238.
[redacted]18:19	24.3	9.	281.	.819	26.1	60.	1016.8	4.	215.
[redacted]18:49	23.5	5.	58.	.827	26.4	61.	1015.9	5.	92.
[redacted]19:19	23.6	9.	59.	.833	27.2	60.	1015.8	7.	94.
[redacted]19:49	23.7	7.	89.	.827	26.4	62.	1015.7	5.	125.
[redacted]20:19	23.7	9.	123.	.817	24.3	78.	1015.8	5.	159.
[redacted]20:49	23.7	12.	144.	.887	22.9	77.	1015.8	4.	172.
[redacted]21:19	23.5	16.	169.	.882	22.8	79.	1015.9	3.	176.
[redacted]21:49	23.4	18.	179.	.888	21.6	79.	1015.9	4.	171.
[redacted]22:19	23.3	20.	174.	.888	21.8	83.	1016.8	6.	169.
[redacted]22:49	22.6	23.	172.	.888	20.6	85.	1016.8	7.	171.
[redacted]23:19	22.1	25.	176.	.888	20.3	86.	1016.8	6.	176.
[redacted]23:49	21.9	26.	184.	.888	20.1	87.	1016.8	6.	172.
[redacted]00:19	21.8	24.	193.	.888	20.1	97.	1016.8	5.	164.
[redacted]00:49	21.8	22.	199.	.888	19.9	88.	1015.9	5.	166.
[redacted]83									
[redacted]01:19	21.6	21.	208.	.888	19.5	90.	1015.7	6.	166.
[redacted]01:49	21.5	21.	201.	.888	18.9	95.	1015.3	5.	178.
[redacted]02:19	21.5	23.	204.	.888	18.5	97.	1015.1	5.	173.
[redacted]02:49	21.4	26.	207.	.888	18.5	97.	1015.8	5.	171.
[redacted]03:19	21.8	27.	206.	.888	18.6	97.	1015.8	5.	178.
[redacted]03:49	20.9	27.	205.	.888	18.5	97.	1015.8	5.	172.
[redacted]04:19	20.9	29.	218.	.888	18.2	99.	1015.8	4.	181.
[redacted]04:49	20.7	29.	229.	.888	18.2	100.	1015.8	4.	193.
[redacted]05:19	20.1	26.	227.	.888	18.8	100.	1015.8	4.	193.
[redacted]05:49	20.8	23.	240.	.888	17.6	100.	1015.8	3.	180.
[redacted]06:19	20.8	22.	248.	.881	17.4	100.	1015.2	2.	287.
[redacted]06:49	19.4	22.	258.	.883	17.5	100.	1015.6	2.	233.
[redacted]07:19	-	-	-	-	-	-	-	-	-
[redacted]07:49	-	-	-	-	-	-	-	-	-
[redacted]08:19	-	-	-	-	-	-	-	-	-
[redacted]08:49	-	-	-	-	-	-	-	-	-
[redacted]09:19	-	-	-	-	-	-	-	-	-
[redacted]09:49	-	-	-	-	-	-	-	-	-
[redacted]10:19	-	-	-	-	-	-	-	-	-
[redacted]10:49	23.5	12.	227.	.875	28.8	54.	1015.8	9.	244.
[redacted]11:19	24.2	15.	222.	.883	29.4	52.	1015.3	10.	236.
[redacted]11:49	24.5	17.	211.	.889	29.8	52.	1015.8	13.	221.
[redacted]12:19	24.8	19.	206.	.894	28.4	52.	1014.9	15.	216.
[redacted]12:49	25.1	20.	207.	.898	28.8	50.	1014.5	15.	221.
[redacted]13:19	25.4	20.	196.	.101	28.6	51.	1014.1	15.	207.

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Iae	Tamo-H	Wspd-H	Wdir-H	SolarRad	Temo	Humidity	Baroa	Wind-Spd	Wind-Dir
2:49-13:19	25.5	22.	183.	.899	27.3	53.	1013.3	16.	188.
3:19-14:19	25.3	23.	184.	.895	26.8	53.	1013.3	17.	190.
3:49-14:49	26.3	23.	193.	.891	28.9	51.	1013.1	17.	201.
4:19-15:19	26.7	23.	198.	.887	29.5	49.	1013.0	18.	209.
4:49-15:49	26.8	24.	194.	.888	29.4	50.	1012.6	20.	204.
5:19-16:19	26.9	24.	191.	.881	29.1	51.	1012.2	21.	200.
5:49-16:49	27.1	22.	192.	.873	29.1	51.	1012.0	19.	203.
6:19-17:19	27.4	20.	195.	.868	29.3	51.	1011.8	19.	206.
6:49-17:49	27.6	19.	201.	.854	29.4	50.	1011.6	16.	210.
7:19-18:19	27.8	20.	213.	.843	29.5	50.	1011.4	13.	222.
7:49-18:49	27.9	22.	230.	.833	29.9	48.	1011.2	13.	247.
8:19-19:19	27.8	21.	241.	.823	29.9	47.	1011.2	9.	259.
8:49-19:49	27.6	15.	239.	.819	28.9	52.	1011.2	3.	236.
9:19-20:19	27.3	13.	222.	.812	26.7	61.	1011.3	5.	199.
9:49-20:49	26.9	14.	215.	.804	25.8	66.	1011.8	6.	178.
0:19-21:19	26.7	15.	220.	.802	24.8	72.	1011.8	7.	172.
0:49-21:49	26.4	15.	214.	.801	23.6	73.	1011.8	8.	167.
1:19-22:19	26.1	18.	211.	.000	23.4	73.	1011.8	8.	168.
1:49-22:49	25.9	20.	210.	.000	23.2	75.	1011.8	8.	168.
2:19-23:19	25.3	20.	201.	.000	23.1	76.	1011.8	9.	169.
2:49-23:49	24.4	19.	206.	.000	22.4	81.	1011.8	4.	198.
3:19-00:19	23.9	20.	234.	.000	22.4	83.	1011.8	3.	264.
3:49-00:49	23.7	21.	249.	.000	22.7	82.	1010.8	1.	269.
1/07/84									
1:19-01:19	23.3	18.	246.	.000	22.4	84.	1010.3	1.	215.
1:49-01:49	23.0	17.	235.	.000	22.0	85.	1010.0	3.	202.
2:19-02:19	22.7	20.	226.	.000	22.2	83.	1010.0	6.	204.
2:49-02:49	22.2	22.	219.	.000	22.2	83.	1010.0	8.	206.
3:19-03:19	21.7	24.	217.	.000	22.2	85.	1010.0	10.	212.
3:49-03:49	21.3	26.	221.	.000	22.1	87.	1010.0	10.	226.
4:19-04:19	20.9	24.	227.	.000	21.8	89.	1010.0	8.	238.
4:49-04:49	20.6	20.	234.	.000	21.4	92.	1010.0	5.	239.
5:19-05:19	20.3	19.	237.	.000	20.9	94.	1010.1	4.	234.
5:49-05:49	20.2	20.	234.	.000	20.5	95.	1010.3	4.	226.
6:19-06:19	20.0	19.	229.	.001	20.1	97.	1010.4	4.	217.
6:49-06:49	19.9	18.	229.	.003	20.0	98.	1010.3	3.	218.
7:19-07:19	19.8	16.	228.	.008	20.4	97.	1010.3	2.	207.
7:49-07:49	19.6	13.	225.	.015	21.2	94.	1010.4	2.	211.
8:19-08:19	19.7	11.	237.	.023	22.6	89.	1010.5	4.	267.
8:49-08:49	-	-	-	-	-	-	-	-	-
9:19-09:19	-	-	-	-	-	-	-	-	-
9:49-09:49	-	-	-	-	-	-	-	-	-
0:19-10:19	20.7	7.	258.	.058	26.4	75.	1010.2	4.	290.
0:49-10:49	21.3	4.	264.	.067	28.3	69.	1010.0	2.	301.
1:19-11:19	22.0	2.	280.	.073	29.5	65.	1010.0	1.	307.
1:49-11:49	22.5	1.	227.	.066	28.7	68.	1010.0	1.	227.
2:19-12:19	-	-	-	-	-	-	-	-	-
2:49-12:49	-	-	-	-	-	-	-	-	-
3:19-13:19	23.2	12.	165.	.008	26.9	75.	1009.9	15.	171.
3:49-13:49	23.5	15.	161.	.059	26.8	75.	1009.7	18.	169.
4:19-14:19	23.9	15.	171.	.057	26.7	74.	1009.3	16.	172.
4:49-14:49	24.2	14.	189.	.071	27.1	73.	1009.1	13.	188.
5:19-15:19	24.6	13.	206.	.085	28.6	68.	1009.0	11.	215.
5:49-15:49	24.8	14.	218.	.076	29.1	66.	1008.7	11.	226.
6:19-16:19	25.0	14.	206.	.062	29.0	66.	1008.2	12.	224.

[redacted]A_84 : 0203

Time	Temp-H	Wspd-H	Wdir-H	SolarRad	Temp	Humidity	Baros	Wind-Spd	Wind-Dir
[redacted]:16:49	24.3	4.	246.	.839	28.2	67.	1008.1	3.	268.
6:19-17:19	22.8	11.	4.	.822	26.9	69.	1008.1	7.	26.
6:[redacted]-17:49	22.3	11.	17.	.821	26.5	71.	1008.0	6.	47.
7:[redacted]-18:19	22.7	10.	28.	.814	26.4	71.	1008.0	5.	66.
7:[redacted]-18:49	22.7	11.	29.	.808	26.0	73.	1008.0	6.	72.
8:19-19:19	22.2	11.	33.	.806	25.4	76.	1008.0	5.	72.
8:[redacted]-19:49	21.8	8.	48.	.805	24.8	80.	1008.2	4.	86.
9:[redacted]-20:19	21.5	8.	82.	.804	23.9	82.	1008.6	5.	132.
9:49-20:49	21.3	9.	97.	.802	22.9	85.	1008.9	7.	158.
0:[redacted]-21:19	20.8	9.	111.	.801	21.7	93.	1009.2	7.	178.
0:[redacted]-21:49	20.1	12.	128.	.800	20.7	99.	1009.0	9.	176.
1:19-22:19	19.8	15.	128.	.800	20.2	99.	1009.0	6.	181.
1:[redacted]-22:49	19.7	12.	137.	.800	20.1	98.	1009.0	4.	182.
2:[redacted]-23:19	19.4	9.	171.	.800	19.8	99.	1009.0	1.	180.
2:[redacted]-23:49	19.3	12.	185.	.800	19.5	100.	1008.9	1.	201.
3:[redacted]-00:19	19.3	15.	191.	.800	19.4	100.	1008.9	1.	197.
3:[redacted]-00:49	19.4	18.	196.	.800	19.2	100.	1008.6	4.	186.
4/27/05									
0:17-01:19	19.4	20.	202.	.800	19.0	100.	1008.3	4.	198.
0:[redacted]-01:49	19.2	20.	210.	.800	18.9	100.	1008.4	3.	206.
1:[redacted]-02:19	19.2	22.	217.	.800	18.8	100.	1008.5	1.	227.
1:49-02:49	19.1	23.	220.	.800	18.7	100.	1008.3	1.	283.
2:[redacted]-03:19	19.1	23.	220.	.800	18.8	100.	1008.2	3.	192.
2:[redacted]-03:49	19.2	22.	224.	.800	18.9	100.	1008.1	2.	192.
3:19-04:19	19.3	21.	233.	.800	18.7	100.	1008.1	2.	197.
3:[redacted]-04:49	19.0	21.	234.	.800	18.4	100.	1008.1	1.	194.
4:[redacted]-05:19	18.9	21.	240.	.800	18.3	100.	1008.2	1.	181.
4:49-05:49	19.0	21.	248.	.800	18.1	100.	1008.4	0.	177.
5:19-06:19	19.0	19.	248.	.800	18.0	100.	1008.4	0.	181.
5:[redacted]-06:49	19.0	16.	253.	.802	17.9	100.	1008.7	0.	88.
6:19-07:19	19.3	16.	268.	.805	18.1	100.	1008.8	0.	96.
6:49-07:49	19.4	15.	261.	.809	18.4	100.	1008.8	0.	48.
7:[redacted]-08:19	19.1	15.	271.	.819	19.5	99.	1008.9	0.	111.
7:[redacted]-08:49	19.8	12.	291.	.830	21.7	94.	1008.9	0.	328.
8:19-09:19	-	-	-	-	-	-	-	-	-
8:[redacted]-09:49	-	-	-	-	-	-	-	-	-
9:[redacted]-10:19	28.4	2.	306.	.836	25.7	71.	1009.0	1.	332.
9:49-10:49	28.9	1.	29.	.832	25.6	70.	1009.0	1.	326.
0:[redacted]-11:19	21.3	1.	28.	.850	25.6	69.	1009.0	3.	321.
0:[redacted]-11:49	22.1	0.	27.	.870	26.9	65.	1009.0	2.	307.
1:19-12:19	22.9	2.	177.	.864	27.7	64.	1009.0	3.	199.
1:49-12:49	23.1	7.	167.	.871	27.1	66.	1009.0	8.	179.
2:[redacted]-13:19	23.3	13.	156.	.898	27.2	64.	1009.0	12.	173.
2:[redacted]-13:49	22.9	21.	164.	.873	26.3	67.	1009.0	19.	180.
3:19-14:19	22.1	26.	174.	.871	25.2	75.	1008.7	23.	188.
3:[redacted]-14:49	22.1	25.	181.	.898	25.6	77.	1008.2	28.	195.
4:[redacted]-15:19	22.6	21.	197.	.867	26.5	74.	1008.0	14.	217.
4:49-15:49	22.3	24.	213.	.832	26.2	74.	1008.2	14.	223.
5:[redacted]-16:19	21.2	29.	218.	.816	24.8	84.	1008.8	15.	238.
5:[redacted]-16:49	20.3	28.	205.	.811	22.4	91.	1008.1	13.	226.
6:19-17:19	20.3	25.	195.	.808	22.2	91.	1008.1	18.	228.
6:[redacted]-17:49	20.3	22.	192.	.816	22.5	87.	1008.8	11.	221.
7:[redacted]-18:19	19.7	17.	195.	.819	22.2	83.	1008.8	9.	217.
7:49-18:49	19.2	13.	187.	.817	21.5	82.	1008.0	7.	189.
8:19-19:19	19.5	13.	191.	.825	21.8	81.	1008.1	7.	177.

ARNIA_34 : 8888

ime	Temp-H	Wspd-H	Wdir-H	SolarRad	Temp	Humidity	Barom	Wind-Spd	Wind-Dir
8:49-19:49	20.3	17.	199.	.827	22.4	80.	1008.2	9.	195.
9:19-20:19	20.9	19.	203.	.817	22.9	80.	1008.1	10.	212.
9:49-20:49	21.0	20.	205.	.809	22.8	79.	1008.0	9.	216.
0:19-21:19	20.6	21.	205.	.803	22.3	79.	1008.1	7.	217.
0:49-21:49	20.2	21.	199.	.800	20.9	82.	1008.1	7.	202.
1:19-22:19	19.9	24.	200.	.800	20.5	85.	1008.5	8.	193.
1:49-22:49	19.6	26.	203.	.800	20.2	87.	1008.7	9.	190.
2:19-23:19	19.4	26.	204.	.800	20.0	90.	1008.5	9.	188.
2:49-23:49	19.4	30.	204.	.800	20.1	90.	1008.7	10.	202.
3:19-00:19	19.5	31.	205.	.800	20.4	89.	1008.9	12.	211.
3:49-00:49	19.4	31.	206.	.800	20.6	91.	1008.8	12.	214.
1/07/06									
4:19-01:19	19.3	30.	209.	.800	20.5	93.	1008.7	11.	214.
4:49-01:49	19.4	29.	206.	.800	20.6	94.	1008.2	11.	210.
5:19-02:19	19.4	29.	203.	.800	20.6	94.	1008.0	11.	208.
5:49-02:49	19.3	26.	200.	.800	20.2	96.	1008.0	10.	195.
6:19-03:19	19.4	26.	199.	.800	20.0	98.	1007.9	9.	188.
6:49-03:49	19.2	23.	204.	.800	19.9	99.	1007.8	7.	194.
7:19-04:19	18.8	14.	223.	.800	20.0	99.	1007.7	3.	222.
7:49-04:49	18.6	10.	229.	.800	20.2	99.	1007.6	2.	269.
8:19-05:19	18.7	13.	200.	.800	20.2	99.	1007.4	2.	189.
8:49-05:49	18.8	16.	188.	.800	20.2	99.	1007.1	4.	170.
9:19-06:19	19.0	18.	188.	.800	20.4	99.	1007.0	4.	173.
9:49-06:49	19.2	20.	195.	.801	20.7	98.	1006.7	6.	201.
0:19-07:19	18.1	16.	259.	.802	20.2	96.	1006.8	8.	290.
0:49-07:49	16.2	26.	310.	.810	18.9	98.	1007.0	12.	328.
1:19-08:19	15.6	18.	316.	.812	18.5	100.	1007.0	6.	345.
1:49-08:49	15.7	7.	277.	.804	18.0	100.	1007.1	1.	259.
2:19-09:19	15.7	10.	180.	.806	17.8	100.	1007.1	7.	172.
2:49-09:49	16.2	19.	190.	.812	18.4	97.	1007.0	10.	181.
3:19-10:19	16.9	24.	205.	.812	19.0	94.	1007.0	12.	197.
3:49-10:49	17.0	26.	201.	.812	19.3	93.	1006.9	14.	196.
4:19-11:19	17.1	24.	195.	.824	19.0	92.	1006.6	15.	191.
4:49-11:49	17.4	21.	196.	.833	20.6	90.	1006.2	15.	195.
5:19-12:19	18.2	20.	209.	.864	22.5	84.	1006.0	14.	217.
5:49-12:49	19.1	20.	241.	.882	24.4	75.	1006.0	15.	262.
6:19-13:19	19.4	23.	255.	.946	24.0	73.	1006.1	17.	279.
6:49-13:49	19.0	19.	250.	.840	22.6	80.	1006.3	12.	271.
7:19-14:19	18.7	14.	228.	.841	21.9	85.	1006.3	7.	232.
7:49-14:49	18.9	13.	201.	.860	22.7	84.	1005.9	8.	197.
8:19-15:19	19.5	11.	222.	.878	23.8	78.	1005.7	6.	225.
8:49-15:49	20.5	17.	257.	.877	25.2	67.	1005.5	12.	281.
9:19-16:19	21.2	23.	267.	.878	26.1	60.	1005.5	18.	292.
9:49-16:49	21.4	28.	272.	.872	26.0	57.	1005.3	22.	298.
0:19-17:19	21.5	29.	273.	.869	25.8	55.	1005.9	23.	297.
0:49-17:49	21.4	31.	279.	.856	25.3	54.	1006.0	24.	302.
1:19-18:19	21.2	37.	283.	.855	25.2	52.	1006.2	28.	307.
1:49-18:49	20.9	38.	283.	.852	24.9	48.	1006.7	28.	306.
2:19-19:19	20.6	37.	284.	.841	24.4	46.	1007.0	28.	307.
2:49-19:49	20.0	35.	290.	.829	23.9	48.	1007.4	25.	313.
3:19-20:19	19.0	34.	302.	.819	22.9	53.	1007.9	21.	322.
3:49-20:49	17.0	33.	313.	.809	21.5	60.	1008.4	16.	334.
4:19-21:19	16.7	30.	314.	.803	20.0	64.	1009.0	14.	342.
4:49-21:49	15.9	27.	311.	.801	18.8	65.	1009.4	13.	337.
5:19-22:19	15.2	25.	307.	.800	17.9	66.	1010.0	13.	329.

[redacted]ARMIA_24 : 2008E

Time	Temp-H	Wspd-H	Wdir-H	SolarRad	Temp	Humidity	Barom	Wind-Gsd	Wind-Dir
21:[redacted]-22:49	14.5	26.	301.	.000	17.2	64.	1010.6	16.	323.
22:[redacted]-23:19	13.9	26.	292.	.000	16.6	63.	1011.1	16.	315.
22:49-23:49	13.3	24.	283.	.000	15.8	66.	1011.6	13.	305.
23:[redacted]-00:19	12.7	23.	280.	.000	15.1	69.	1011.9	11.	299.
23:[redacted]-00:49	12.3	23.	274.	.000	14.6	71.	1012.0	9.	289.
04/07/07									
00:[redacted]-01:19	12.1	24.	267.	.000	14.0	74.	1012.2	8.	276.
00:[redacted]-01:49	11.7	25.	271.	.000	13.7	74.	1012.2	10.	282.
01:19-02:19	11.3	25.	272.	.000	13.6	72.	1012.1	10.	284.
01:49-02:49	11.0	24.	268.	.000	13.1	73.	1012.4	9.	279.
02:[redacted]-03:19	10.7	24.	269.	.000	12.7	74.	1012.7	8.	278.
02:[redacted]-03:49	10.3	21.	265.	.000	12.3	76.	1012.9	6.	264.
03:19-04:19	10.0	20.	260.	.000	11.8	79.	1013.0	5.	245.
03:[redacted]-04:49	9.9	22.	258.	.000	11.4	81.	1013.5	5.	244.
04:[redacted]-05:19	9.8	23.	261.	.000	11.2	81.	1013.9	5.	246.
04:49-05:49	9.7	22.	264.	.000	11.1	82.	1014.4	5.	251.
05:[redacted]-06:19	9.5	22.	264.	.001	11.0	82.	1014.8	6.	249.
05:[redacted]-06:49	9.4	23.	262.	.004	11.2	82.	1015.3	6.	247.
06:19-07:19	9.3	23.	261.	.007	11.7	80.	1015.8	6.	247.
06:[redacted]-07:49	9.5	22.	261.	.017	12.9	76.	1016.0	9.	270.
07:[redacted]-08:19	10.1	26.	266.	.029	14.3	72.	1016.0	16.	289.
07:49-08:49	10.7	30.	269.	.040	14.9	69.	1016.0	23.	295.
08:19-09:19	11.2	34.	276.	.050	15.5	67.	1016.0	28.	301.
08:[redacted]-09:49	11.4	36.	280.	.056	16.0	66.	1016.0	29.	307.
09:[redacted]-10:19	11.8	35.	286.	.069	16.9	63.	1016.0	28.	313.
09:49-10:49	12.2	34.	291.	.060	17.3	62.	1016.3	27.	316.
10:[redacted]-11:19	12.5	28.	290.	.049	17.5	61.	1016.8	21.	316.
10:[redacted]-11:49	-	-	-	-	-	-	-	-	-
11:19-12:19	-	-	-	-	-	-	-	-	-
11:[redacted]-12:49	13.9	27.	309.	.054	19.3	54.	1017.2	16.	333.
12:[redacted]-13:19	14.5	25.	301.	.042	19.5	53.	1017.2	15.	327.
12:49-13:49	14.7	22.	292.	.036	19.3	54.	1017.5	16.	329.
13:[redacted]-14:19	15.0	19.	294.	.032	20.4	52.	1017.9	13.	319.
13:[redacted]-14:49	15.3	21.	304.	.047	20.7	50.	1018.0	13.	320.
14:19-15:19	15.4	24.	307.	.046	20.7	50.	1018.0	14.	325.
14:49-15:49	15.6	19.	308.	.045	21.3	50.	1018.1	11.	337.
15:[redacted]-16:19	15.8	16.	309.	.049	21.6	49.	1018.2	8.	341.
15:[redacted]-16:49	16.2	15.	298.	.066	21.9	47.	1018.2	9.	328.
16:19-17:19	16.7	17.	276.	.053	21.4	47.	1018.2	12.	302.
16:[redacted]-17:49	17.2	19.	267.	.049	21.2	47.	1018.1	14.	292.
17:[redacted]-18:19	17.4	19.	260.	.051	21.5	47.	1018.1	15.	292.
17:49-18:49	17.4	17.	256.	.028	21.8	49.	1018.8	13.	278.
18:[redacted]-19:19	17.4	13.	275.	.029	20.8	50.	1018.8	9.	301.
18:[redacted]-19:49	17.5	14.	299.	.023	21.2	50.	1018.8	7.	328.
19:19-20:19	17.6	15.	297.	.019	21.1	51.	1018.8	7.	321.
19:49-20:49	17.6	14.	291.	.012	20.5	53.	1018.8	7.	313.
20:[redacted]-21:19	17.5	14.	299.	.005	19.2	59.	1018.8	3.	310.
20:49-21:49	17.3	13.	298.	.001	17.1	71.	1018.4	1.	287.
21:19-22:19	17.2	13.	265.	.000	15.4	88.	1018.9	0.	255.
21:[redacted]-22:49	17.1	13.	259.	.000	14.6	83.	1019.0	0.	258.
22:19-23:19	17.1	14.	261.	.000	14.4	85.	1019.1	0.	231.
22:49-23:49	17.1	14.	256.	.000	14.3	89.	1019.3	0.	283.
23:[redacted]-00:19	17.0	14.	245.	.000	14.2	90.	1019.5	0.	199.
23:[redacted]-00:49	16.9	15.	233.	.000	13.9	91.	1019.8	0.	220.
/07/08									
00:[redacted]-01:19	16.9	16.	231.	.000	13.4	93.	1020.0	0.	227.

[redacted]

SARNIA_84 : 0029

Time	Temp-H	Wspd-H	Wdir-H	SolarRad	Temp	Humidity	Baroa	Wind-Spd	Wind-Dir
30:49-01:49	16.7	17.	239.	.000	12.9	91.	1020.0	0.	253.
31:19-02:19	16.4	19.	243.	.000	12.5	90.	1020.0	0.	262.
31:49-02:49	16.0	19.	252.	.000	12.4	89.	1020.0	0.	258.
32:19-03:19	15.3	19.	274.	.000	12.4	88.	1020.0	-0.	263.
32:49-03:49	14.7	23.	289.	.000	12.1	88.	1020.1	0.	282.
33:19-04:19	14.9	24.	292.	.000	11.7	90.	1020.4	0.	285.
33:49-04:49	14.7	24.	294.	.000	11.8	92.	1020.8	0.	330.
34:19-05:19	14.8	23.	297.	.000	11.8	91.	1020.9	1.	306.
34:49-05:49	14.9	21.	300.	.000	11.3	90.	1021.0	2.	313.
35:19-06:19	14.6	21.	298.	.000	11.4	90.	1021.3	1.	326.
35:49-06:49	14.5	20.	297.	.003	11.6	88.	1021.8	1.	327.
36:19-07:19	14.6	18.	297.	.007	12.4	85.	1021.9	1.	299.
36:49-07:49	14.9	17.	291.	.016	13.7	80.	1022.0	2.	307.
37:19-08:19	15.3	15.	288.	.031	15.7	75.	1022.0	3.	321.
37:49-08:49	15.1	11.	292.	.042	17.7	71.	1022.0	3.	326.
38:19-09:19	15.4	7.	295.	.052	20.0	64.	1022.1	1.	328.
38:49-09:49	16.4	4.	293.	.062	22.6	55.	1022.2	1.	315.
39:19-10:19	17.0	3.	287.	.071	24.5	46.	1022.4	1.	299.
39:49-10:49	17.5	4.	297.	.080	25.5	40.	1022.4	2.	326.
40:19-11:19	17.9	3.	314.	.087	26.3	37.	1022.2	3.	346.
40:49-11:49	18.3	3.	317.	.094	26.8	37.	1022.1	2.	321.
41:19-12:19	18.8	2.	301.	.100	25.5	38.	1022.1	3.	298.
41:49-12:49	19.2	4.	282.	.103	25.9	38.	1022.0	3.	301.
42:19-13:19	19.5	6.	283.	.106	26.2	38.	1022.0	4.	307.
42:49-13:49	19.9	7.	283.	.105	26.4	37.	1022.0	5.	308.
43:19-14:19	20.3	6.	281.	.098	26.6	36.	1022.0	4.	305.
43:49-14:49	20.5	5.	271.	.076	26.3	38.	1021.9	3.	296.
44:19-15:19	20.6	3.	284.	.068	26.4	39.	1021.3	2.	340.
44:49-15:49	20.8	3.	155.	.076	26.2	41.	1020.9	4.	162.
45:19-16:19	21.0	10.	153.	.088	25.2	44.	1020.5	9.	174.
45:49-16:49	21.1	11.	163.	.087	25.0	45.	1020.1	9.	180.
46:19-17:19	21.2	12.	180.	.081	25.2	45.	1019.9	10.	193.
46:49-17:49	21.2	15.	170.	.070	24.9	45.	1019.7	7.	185.
47:19-18:19	21.2	17.	163.	.057	24.3	47.	1019.3	2.	168.
47:49-18:49	21.2	16.	163.	.042	24.0	48.	1019.1	0.	316.
48:19-19:19	21.1	16.	178.	.037	23.7	50.	1019.2	0.	4.
48:49-19:49	21.1	16.	180.	.034	23.7	49.	1019.6	0.	19.
49:19-20:19	21.1	14.	180.	.021	23.1	52.	1019.9	0.	22.
49:49-20:49	21.0	15.	177.	.009	22.0	56.	1020.0	0.	20.
50:19-21:19	20.3	22.	169.	.003	21.1	57.	1020.0	0.	3.
50:49-21:49	19.5	28.	162.	.000	20.4	58.	1020.0	0.	343.
51:19-22:19	18.9	29.	158.	.000	19.9	60.	1020.0	0.	342.
51:49-22:49	18.3	28.	156.	.000	19.7	62.	1020.0	0.	343.
52:19-23:19	17.8	29.	155.	.000	19.4	64.	1019.8	0.	344.
52:49-23:49	17.7	29.	154.	.000	19.3	66.	1019.4	0.	344.
53:19-00:19	17.7	27.	154.	.000	19.2	66.	1019.1	0.	345.
53:49-00:49	17.4	26.	155.	.000	18.9	68.	1019.0	0.	346.
6/07/09									
0:19-01:19	17.2	24.	157.	.000	18.7	72.	1019.0	0.	347.
0:49-01:49	17.0	24.	160.	.000	18.5	76.	1019.0	0.	350.
1:19-02:19	17.0	26.	163.	.000	18.4	78.	1019.0	0.	347.
1:49-02:49	17.2	30.	166.	.000	18.2	78.	1018.9	0.	343.
2:19-03:19	17.2	29.	168.	.000	18.1	78.	1018.4	0.	344.
2:49-03:49	17.0	23.	171.	.000	18.3	79.	1018.4	0.	348.
3:19-04:19	-	-	-	-	-	-	-	-	-

[redacted]_84 : 2003

Time	Temp-H	Wspd-H	Wdir-H	SolarRad	Temp	Humidity	Barom	Wind-Spd	Wind-Dir
[redacted]-04:49	-	-	-	-	-	-	-	-	-
[redacted]-05:19	-	-	-	-	-	-	-	-	-
04:49-05:49	17.2	23.	169.	.020	19.2	79.	1019.2	0.	341.
05:[redacted]-06:19	17.1	23.	163.	.000	19.2	80.	1018.3	0.	340.
05:[redacted]-06:49	17.2	23.	161.	.000	19.0	82.	1018.7	0.	339.
06:19-07:19	17.1	25.	161.	.000	19.1	83.	1018.9	0.	340.
06:[redacted]-07:49	17.2	27.	159.	.002	18.3	83.	1018.8	0.	340.
07:[redacted]-08:19	17.2	29.	158.	.005	18.6	83.	1018.4	0.	340.
07:49-08:49	17.3	29.	157.	.015	19.4	82.	1018.8	0.	342.
08:[redacted]-09:19	17.3	29.	161.	.031	20.5	81.	1018.8	0.	346.
08:[redacted]-09:49	18.7	28.	170.	.033	21.3	79.	1018.8	0.	353.
09:19-10:19	19.2	26.	179.	.019	21.4	78.	1018.8	0.	357.
09:49-10:49	19.4	26.	182.	.015	21.5	77.	1018.1	0.	190.
10:[redacted]-11:19	19.6	25.	182.	.024	22.0	74.	1018.0	0.	183.
10:[redacted]-11:49	20.1	26.	182.	.023	22.4	72.	1017.9	6.	193.
11:19-12:19	20.3	29.	181.	.017	22.4	71.	1017.6	9.	181.
11:[redacted]-12:49	20.1	31.	180.	.013	22.1	73.	1017.3	3.	176.
12:[redacted]-13:19	20.0	33.	178.	.014	22.0	74.	1016.8	3.	175.
12:49-13:49	19.9	39.	176.	.049	22.6	71.	1016.2	19.	182.
13:[redacted]-14:19	19.9	40.	180.	.094	23.4	68.	1015.8	31.	188.
13:[redacted]-14:49	19.8	36.	182.	.098	23.6	69.	1015.4	28.	191.
14:19-15:19	19.8	35.	181.	.089	23.4	70.	1015.0	28.	191.
14:[redacted]-15:49	19.7	39.	180.	.081	23.2	71.	1014.9	30.	190.
15:[redacted]-16:19	19.6	39.	182.	.074	23.0	73.	1014.5	33.	192.
15:49-16:49	19.5	38.	183.	.075	22.9	74.	1014.1	29.	192.
16:19-17:19	19.4	37.	184.	.051	22.5	77.	1014.3	28.	192.
16:[redacted]-17:49	19.6	33.	190.	.040	22.4	78.	1014.8	25.	199.
17:[redacted]-18:19	19.8	27.	189.	.044	22.7	79.	1015.8	21.	197.
17:49-18:49	19.8	26.	190.	.033	22.5	81.	1014.8	18.	197.
18:[redacted]-19:19	19.8	28.	176.	.022	22.3	82.	1014.6	19.	192.
18:[redacted]-19:49	19.9	28.	178.	.011	22.1	84.	1014.4	19.	184.
19:19-20:19	20.0	30.	177.	.006	21.8	86.	1014.2	19.	185.
19:[redacted]-20:49	19.9	32.	170.	.004	21.6	87.	1013.4	19.	181.
20:[redacted]-21:19	19.9	33.	165.	.002	21.5	88.	1012.8	19.	176.
20:49-21:49	19.7	30.	169.	.000	21.3	89.	1012.7	18.	188.
21:19-22:19	19.6	21.	179.	.000	21.1	90.	1013.3	11.	187.
21:[redacted]-22:49	19.6	16.	182.	.000	21.0	92.	1013.6	6.	178.
22:19-23:19	19.8	17.	173.	.000	21.2	92.	1013.3	5.	162.
22:49-23:49	19.8	17.	169.	.000	20.9	93.	1013.3	4.	164.
23:[redacted]-00:19	19.9	19.	162.	.000	20.8	94.	1013.3	6.	154.
23:[redacted]-00:49	19.5	26.	-152.	.000	20.4	95.	1012.5	11.	153.
6/07/18									
0:[redacted]-01:19	19.2	29.	146.	.000	20.1	99.	1012.1	12.	153.
0:[redacted]-01:49	19.1	19.	119.	.000	20.2	100.	1012.4	7.	121.
1:19-02:19	19.2	20.	123.	.000	20.2	100.	1012.8	9.	139.
1:[redacted]-02:49	19.8	31.	154.	.000	20.2	100.	1013.8	14.	165.
2:[redacted]-03:19	20.1	31.	159.	.000	20.1	100.	1013.2	18.	169.
2:49-03:49	20.1	28.	159.	.000	20.4	100.	1013.1	8.	166.
3:19-04:19	20.1	28.	163.	.000	20.5	100.	1013.1	8.	167.
3:[redacted]-04:49	19.8	28.	165.	.000	20.3	100.	1013.0	9.	170.
4:19-05:19	19.6	28.	167.	.000	20.2	100.	1009.8	10.	171.
4:49-05:49	19.7	30.	174.	.000	20.4	100.	1009.7	12.	178.
5:[redacted]-06:19	19.6	27.	182.	.000	20.4	100.	1009.9	10.	185.
5:[redacted]-06:49	19.8	22.	193.	.002	20.3	100.	1010.3	6.	183.
6:19-07:19	20.2	22.	212.	.004	20.3	100.	1010.7	5.	187.

[redacted]

[redacted]

Time	Temp-H	Wspd-H	Wdir-H	SolarRad	Temp	Humidity	Baron	Wind-Spd	Wind-Dir
06:49-07:49	20.3	15.	249.	.304	21.1	100.	1010.5	2.	179.
07:19-08:19	21.1	8.	295.	.305	21.6	100.	1010.1	2.	155.
07:49-08:49	21.1	1.	252.	.309	21.2	100.	1010.4	3.	184.
08:19-09:19	-	-	-	-	-	-	-	-	-
08:49-09:49	-	-	-	-	-	-	-	-	-
09:19-10:19	-	-	-	-	-	-	-	-	-
09:49-10:49	-	-	-	-	-	-	-	-	-
10:19-11:19	24.1	11.	238.	.357	29.4	81.	1010.7	8.	253.
10:49-11:49	24.3	11.	242.	.356	29.7	77.	1010.9	8.	272.
11:19-12:19	25.4	8.	238.	.372	30.4	76.	1011.3	4.	268.
11:49-12:49	26.3	12.	242.	.353	30.5	75.	1011.3	5.	257.
12:19-13:19	26.8	19.	257.	.336	29.8	71.	1011.2	11.	294.
12:49-13:49	26.7	18.	265.	.339	29.6	68.	1011.0	13.	296.
13:19-14:19	26.5	19.	257.	.338	29.6	68.	1011.3	14.	295.
13:49-14:49	26.4	21.	251.	.358	30.2	67.	1011.0	15.	292.
14:19-15:19	26.6	21.	258.	.375	31.1	66.	1010.6	16.	277.
14:49-15:49	27.1	19.	252.	.373	31.3	65.	1010.2	14.	277.
15:19-16:19	27.3	15.	257.	.381	32.4	64.	1009.9	11.	284.
15:49-16:49	28.3	13.	257.	.377	32.9	63.	1009.4	9.	285.
16:19-17:19	28.7	12.	240.	.347	32.6	65.	1008.9	7.	268.
16:49-17:49	28.3	12.	226.	.324	30.8	71.	1009.5	5.	229.
17:19-18:19	28.6	14.	223.	.318	29.7	74.	1009.1	3.	228.
17:49-18:49	27.9	8.	265.	.322	29.9	73.	1008.1	2.	354.
18:19-19:19	25.9	17.	355.	.328	29.7	74.	1008.2	9.	15.
18:49-19:49	23.8	20.	11.	.329	28.8	78.	1008.2	9.	26.
19:19-20:19	22.9	11.	18.	.318	26.9	84.	1008.2	5.	38.
19:49-20:49	23.3	5.	45.	.305	24.8	91.	1008.1	1.	46.
20:19-21:19	23.8	12.	16.	.302	24.3	92.	1008.3	3.	24.
20:49-21:49	21.7	20.	12.	.300	24.4	91.	1009.1	5.	30.
21:19-22:19	21.4	20.	30.	.300	23.8	94.	1008.8	4.	59.
21:49-22:49	21.9	18.	54.	.300	23.3	97.	1007.9	4.	105.
22:19-23:19	22.0	19.	75.	.300	22.9	99.	1007.7	4.	129.
22:49-23:49	22.4	23.	93.	.300	22.8	100.	1006.9	5.	149.
23:19-00:19	23.6	26.	122.	.300	22.4	100.	1006.2	8.	166.
23:49-00:49	24.4	31.	162.	.300	22.3	100.	1006.0	10.	175.
4/07/11									
00:19-01:19	24.9	35.	188.	.300	23.6	96.	1006.3	14.	185.
00:49-01:49	25.2	38.	198.	.300	25.4	90.	1006.3	18.	202.
01:19-02:19	24.3	26.	234.	.300	25.9	86.	1006.4	12.	258.
01:49-02:49	22.6	28.	269.	.300	24.5	91.	1006.3	16.	283.
02:19-03:19	21.4	26.	254.	.300	22.8	97.	1006.4	7.	294.
02:49-03:49	20.7	23.	235.	.300	22.1	100.	1005.5	1.	134.
03:19-04:19	20.4	24.	216.	.299	21.7	100.	1004.7	2.	117.
03:49-04:49	20.6	31.	215.	.300	21.9	100.	1004.5	1.	117.
04:19-05:19	20.9	34.	224.	.300	22.1	99.	1004.2	3.	115.
04:49-05:49	21.8	29.	231.	.300	22.3	98.	1003.4	3.	133.
05:19-06:19	20.9	26.	230.	.300	22.3	98.	1003.4	0.	131.
05:49-06:49	20.8	29.	229.	.301	22.2	99.	1004.3	1.	126.
06:19-07:19	20.7	29.	233.	.301	22.3	98.	1004.5	0.	122.
06:49-07:49	20.5	27.	238.	.303	22.3	99.	1005.0	0.	131.
07:19-08:19	20.4	24.	234.	.305	22.3	100.	1005.0	0.	126.
07:49-08:49	20.5	21.	232.	.308	22.6	99.	1005.3	1.	127.
08:19-09:19	20.6	19.	236.	.312	23.3	98.	1005.3	1.	128.
08:49-09:49	21.0	20.	248.	.315	23.3	95.	1005.2	2.	127.
09:19-10:19	21.3	21.	242.	.315	24.4	92.	1005.2	1.	127.

[redacted]_94 : 0003

Time	Temp-H	Wsod-H	Wdir-H	SolarRad	Temp	Humidity	Baron	Wind-Spd	Wind-Dir
[redacted]:49	21.4	20.	243.	.811	24.3	93.	1005.8	8.	123.
[redacted]:19-11:19	21.4	21.	243.	.813	24.1	94.	1005.8	8.	121.
[redacted]:49-11:49	20.9	18.	235.	.811	23.7	96.	1005.8	1.	133.
[redacted]:19-12:19	19.3	16.	317.	.811	22.3	99.	1005.9	1.	151.
[redacted]:49-12:49	18.1	26.	347.	.813	21.6	100.	1006.6	4.	23.
[redacted]:19-13:19	19.8	26.	346.	.813	21.6	100.	1006.9	9.	9.
[redacted]:49-13:49	17.7	25.	335.	.807	21.2	100.	1007.0	8.	339.
[redacted]:19-14:19	17.4	27.	329.	.808	20.9	100.	1007.5	10.	334.
[redacted]:49-14:49	17.8	25.	328.	.809	20.9	99.	1008.0	10.	336.
[redacted]:19-15:19	17.1	28.	327.	.816	21.1	96.	1008.0	7.	337.
[redacted]:49-15:49	17.7	15.	319.	.835	21.9	91.	1007.9	6.	342.
[redacted]:19-16:19	18.4	15.	309.	.858	23.4	84.	1007.5	8.	332.
[redacted]:49-16:49	19.4	19.	307.	.868	24.9	78.	1007.3	12.	334.
[redacted]:19-17:19	20.4	19.	303.	.880	25.7	74.	1007.7	11.	329.
[redacted]:49-17:49	21.2	20.	304.	.865	26.2	71.	1008.0	11.	331.
[redacted]:19-18:19	21.6	19.	299.	.854	26.6	69.	1008.2	12.	333.
[redacted]:49-18:49	21.9	15.	288.	.845	26.2	71.	1008.2	12.	338.
[redacted]:19-19:19	22.4	14.	265.	.835	26.8	72.	1008.3	12.	299.
[redacted]:49-19:49	22.8	16.	256.	.828	26.1	73.	1008.2	11.	282.
[redacted]:19-20:19	23.0	16.	258.	.818	26.8	75.	1008.0	12.	276.
[redacted]:49-20:49	23.1	16.	246.	.818	25.4	80.	1008.1	5.	264.
[redacted]:19-21:19	23.2	19.	252.	.804	24.2	85.	1008.1	3.	259.
[redacted]:49-21:49	23.3	24.	267.	.801	23.2	85.	1008.5	6.	282.
[redacted]:19-22:19	23.1	28.	277.	.800	23.8	79.	1009.1	9.	299.
[redacted]:49-22:49	22.9	29.	279.	.800	22.3	78.	1009.7	8.	284.
[redacted]:19-23:19	22.4	32.	278.	.800	21.9	77.	1010.0	10.	285.
[redacted]:49-23:49	21.8	33.	279.	.800	21.8	74.	1010.1	11.	296.
[redacted]:19-00:19	21.2	32.	281.	.800	21.3	75.	1010.5	10.	304.
[redacted]:49-00:49	20.3	28.	285.	.800	20.6	78.	1010.9	5.	311.
[redacted]12									
[redacted]:19-01:19	19.5	24.	285.	.800	19.7	82.	1011.0	3.	308.
[redacted]:49-01:49	19.1	24.	284.	.800	19.2	85.	1011.0	1.	314.
[redacted]:19-02:19	18.6	21.	286.	.800	19.0	85.	1011.0	1.	343.
[redacted]:49-02:49	19.2	18.	289.	.800	19.0	85.	1011.0	1.	38.
[redacted]:19-03:19	18.1	18.	285.	.800	18.8	86.	1011.0	0.	29.
[redacted]:49-03:49	18.2	22.	279.	.800	18.2	88.	1011.0	0.	18.
[redacted]:19-04:19	18.2	25.	275.	.800	17.7	90.	1011.0	0.	316.
[redacted]:49-04:49	17.9	25.	271.	.800	17.2	91.	1011.1	0.	314.
[redacted]:19-05:19	17.6	24.	270.	.800	16.9	92.	1011.4	0.	299.
[redacted]:49-05:49	17.5	25.	270.	.800	16.7	92.	1011.8	0.	288.
[redacted]:19-06:19	17.4	26.	271.	.800	16.5	94.	1012.0	0.	264.
[redacted]:49-06:49	17.3	26.	268.	.803	16.6	94.	1012.2	0.	267.
[redacted]:19-07:19	17.3	24.	262.	.806	17.5	91.	1012.6	0.	255.
[redacted]:49-07:49	17.4	19.	255.	.815	18.6	89.	1012.8	1.	194.
[redacted]:19-08:19	17.6	17.	249.	.827	20.1	86.	1012.9	3.	223.
[redacted]:49-08:49	18.2	16.	244.	.838	22.4	81.	1013.2	6.	247.
[redacted]:19-09:19	19.2	14.	233.	.848	24.6	74.	1013.3	7.	259.
[redacted]:49-09:49	20.3	12.	217.	.855	25.9	70.	1013.6	7.	249.
[redacted]:19-10:19	21.4	13.	218.	.865	27.1	67.	1013.8	8.	234.
[redacted]:49-10:49	22.1	15.	209.	.876	28.2	63.	1012.9	11.	237.
[redacted]:19-11:19	22.7	15.	202.	.882	28.1	64.	1012.7	10.	226.
[redacted]:49-11:49	23.4	16.	201.	.888	27.7	65.	1012.4	11.	207.
[redacted]:19-12:19	-	-	-	-	-	-	-	-	-
[redacted]:49-12:49	-	-	-	-	-	-	-	-	-
[redacted]:19-13:19	25.5	18.	219.	.884	29.6	58.	1012.8	13.	231.

Time	Temp-H	Wspd-H	Wdir-H	SolarRad	Temp	Humidity	Baron	Wind-Spd	Wind-Dir
12:49-13:19	26.3	19.	250.	.888	30.6	53.	1012.0	16.	272.
13:19-14:19	26.9	26.	256.	.107	30.9	47.	1012.3	22.	289.
13:49-14:49	27.8	29.	273.	.189	30.9	45.	1012.2	24.	297.
14:19-15:19	27.8	26.	275.	.393	30.8	44.	1012.3	22.	281.
14:49-15:49	27.1	24.	281.	.856	31.1	44.	1011.9	19.	286.
15:19-16:19	27.2	22.	284.	.891	31.4	44.	1011.9	18.	318.
15:49-16:49	27.4	20.	275.	.887	31.3	44.	1011.8	17.	280.
16:19-17:19	27.5	19.	265.	.880	31.2	43.	1011.6	16.	291.
16:49-17:49	27.5	19.	268.	.858	30.5	44.	1011.6	15.	294.
17:19-18:19	26.3	20.	304.	.821	29.4	49.	1011.8	12.	324.
17:49-18:49	24.2	23.	337.	.819	28.5	56.	1012.0	9.	1.
18:19-19:19	23.4	18.	355.	.816	27.5	61.	1012.0	5.	19.
18:49-19:49	23.9	13.	350.	.813	27.3	62.	1012.0	3.	10.
19:19-20:19	24.2	10.	324.	.815	27.3	64.	1012.1	1.	9.
19:49-20:49	24.3	11.	292.	.818	26.4	67.	1012.3	0.	11.
20:19-21:19	24.8	13.	297.	.803	25.1	73.	1012.6	1.	30.
20:49-21:49	23.7	13.	315.	.801	24.1	78.	1012.8	1.	39.
21:19-22:19	23.4	13.	323.	.800	22.7	85.	1013.1	1.	43.
21:49-22:49	22.8	6.	324.	.800	21.8	92.	1013.6	1.	160.
22:19-23:19	22.6	1.	304.	.800	20.3	95.	1013.9	1.	168.
22:49-23:49	22.8	3.	299.	.800	19.9	96.	1013.9	0.	62.
23:19-00:19	23.2	7.	288.	.800	19.4	98.	1013.9	0.	165.
23:49-00:49	23.2	7.	276.	.800	19.8	99.	1014.8	0.	179.
04/07/13									
00:19-01:19	22.7	6.	266.	.800	18.7	100.	1014.1	0.	169.
00:49-01:49	22.7	7.	261.	.800	18.4	100.	1014.6	0.	37.
01:19-02:19	22.2	9.	256.	.800	18.2	100.	1014.9	0.	189.
01:49-02:49	22.6	18.	228.	.800	18.1	100.	1014.9	0.	191.
02:19-03:19	23.7	11.	231.	.800	17.8	100.	1014.9	0.	7.
02:49-03:49	23.9	11.	237.	.800	17.7	100.	1014.9	0.	189.
03:19-04:19	23.8	11.	248.	.800	17.7	100.	1015.0	0.	189.
03:49-04:49	23.9	11.	256.	.800	17.3	100.	1015.2	0.	79.
04:19-05:19	24.0	11.	268.	.800	17.0	100.	1015.0	0.	176.
04:49-05:49	24.0	10.	269.	.800	16.9	100.	1015.0	0.	210.
05:19-06:19	23.6	9.	263.	.800	16.9	100.	1015.0	0.	9.
05:49-06:49	23.1	11.	267.	.802	16.9	100.	1015.2	0.	13.
06:19-07:19	22.1	14.	273.	.805	17.5	100.	1015.7	0.	359.
06:49-07:49	21.0	17.	282.	.812	18.0	99.	1016.1	0.	340.
07:19-08:19	21.0	16.	271.	.823	20.0	97.	1016.3	1.	171.
07:49-08:49	23.4	17.	247.	.834	21.6	93.	1016.6	1.	171.
08:19-09:19	-	-	-	-	-	-	-	-	-
08:49-09:49	-	-	-	-	-	-	-	-	-
09:19-10:19	-	-	-	-	-	-	-	-	-
09:49-10:49	24.3	9.	215.	.874	30.5	57.	1016.6	6.	221.
10:19-11:19	25.5	12.	223.	.882	31.2	51.	1016.6	8.	237.
10:49-11:49	26.0	12.	228.	.888	32.2	46.	1016.9	9.	258.
11:19-12:19	26.3	11.	223.	.894	32.2	46.	1017.2	7.	236.
11:49-12:49	26.7	9.	221.	.100	32.3	46.	1017.0	6.	228.
12:19-13:19	26.9	11.	203.	.103	31.6	48.	1017.9	8.	204.
12:49-13:49	27.1	12.	191.	.103	31.0	49.	1016.9	8.	196.
13:19-14:19	27.3	11.	187.	.101	30.9	48.	1016.6	8.	178.
13:49-14:49	27.4	12.	189.	.094	30.3	49.	1016.3	9.	177.
14:19-15:19	27.5	14.	188.	.089	30.2	50.	1016.1	10.	188.
14:49-15:49	27.4	18.	176.	.086	30.3	50.	1016.1	13.	174.
15:19-16:19	27.4	22.	173.	.081	30.1	50.	1016.0	16.	173.

Time	Temp-H	Wspd-H	Wdir-H	SolarRad	Temp	Humidity	Baron	Wind-Gst	Wind-Dir
[redacted]-16:49	27.4	24.	176.	.875	29.8	51.	1816.8	18.	176.
16:19-17:19	27.3	26.	176.	.870	29.6	53.	1816.8	20.	176.
16:[redacted]-17:49	27.3	26.	178.	.864	29.3	55.	1815.9	18.	188.
17:[redacted]-18:19	27.4	24.	179.	.856	29.0	55.	1815.5	17.	182.
17:49-18:49	27.5	22.	178.	.845	28.7	55.	1815.2	15.	191.
18:19-19:19	27.5	20.	188.	.834	28.1	56.	1815.2	13.	192.
18:[redacted]-19:49	27.4	19.	176.	.824	27.3	59.	1815.2	9.	176.
19:19-20:19	27.3	19.	172.	.815	26.8	65.	1815.2	7.	178.
19:49-20:49	27.1	20.	166.	.807	25.8	67.	1815.2	7.	178.
20:[redacted]-21:19	26.2	21.	163.	.802	24.8	67.	1815.6	7.	181.
20:[redacted]-21:49	25.4	20.	170.	.800	24.1	72.	1816.8	6.	171.
21:19-22:19	25.1	18.	199.	.800	23.2	79.	1816.1	5.	164.
21:[redacted]-22:49	24.7	17.	200.	.800	22.5	84.	1816.5	5.	161.
22:[redacted]-23:19	24.7	19.	207.	.800	21.9	88.	1816.9	5.	162.
22:49-23:49	25.1	21.	216.	.800	21.5	90.	1817.0	5.	163.
23:[redacted]-00:19	25.4	22.	216.	.800	21.5	89.	1817.3	4.	164.
23:[redacted]-00:49	25.4	25.	215.	.800	21.7	85.	1817.3	4.	165.
04/07/14									
00:[redacted]-01:19	24.7	25.	213.	.800	21.7	84.	1817.3	4.	164.
00:[redacted]-01:49	23.6	25.	208.	.800	21.2	88.	1817.7	4.	167.
01:19-02:19	23.4	30.	210.	.800	21.0	91.	1817.9	3.	190.
01:49-02:49	23.5	33.	214.	.800	21.3	91.	1817.9	3.	202.
02:[redacted]-03:19	22.9	30.	214.	.800	21.3	92.	1817.9	3.	193.
02:[redacted]-03:49	22.8	27.	214.	.800	21.2	93.	1817.9	4.	165.
03:19-04:19	23.1	24.	218.	.800	21.1	94.	1817.9	4.	167.
03:[redacted]-04:49	23.2	22.	221.	.800	21.0	96.	1817.9	5.	166.
04:[redacted]-05:19	22.9	21.	223.	.800	20.6	98.	1818.2	4.	164.
04:49-05:49	22.5	21.	227.	.800	20.1	100.	1818.8	2.	168.
05:[redacted]-06:19	22.4	22.	228.	.800	19.7	100.	1818.8	1.	178.
05:[redacted]-06:49	22.4	21.	230.	.802	19.4	100.	1818.3	1.	174.
06:19-07:19	22.8	21.	232.	.805	19.9	100.	1818.7	2.	171.
06:49-07:49	22.5	20.	224.	.813	20.9	98.	1819.0	5.	167.
07:[redacted]-08:19	21.8	18.	212.	.825	22.2	95.	1818.9	5.	167.
07:[redacted]-08:49	21.7	14.	208.	.836	23.6	91.	1818.8	5.	173.
08:19-09:19	22.3	11.	212.	.846	25.1	84.	1818.8	5.	185.
08:[redacted]-09:49	23.5	12.	221.	.852	27.6	75.	1819.1	5.	221.
09:[redacted]-10:19	24.5	12.	226.	.859	30.2	65.	1819.5	8.	241.
09:49-10:49	25.5	12.	227.	.872	31.8	59.	1819.8	9.	246.
10:[redacted]-11:19	26.4	12.	228.	.881	32.9	55.	1819.7	9.	243.
10:[redacted]-11:49	27.2	14.	231.	.888	33.5	51.	1819.3	10.	243.
11:19-12:19	27.7	14.	223.	.894	33.5	50.	1819.2	10.	234.
11:[redacted]-12:49	28.0	16.	213.	.898	33.2	50.	1819.1	11.	219.
12:[redacted]-13:19	28.3	19.	212.	.181	33.2	52.	1819.0	13.	228.
12:49-13:49	28.5	22.	208.	.184	33.0	49.	1819.0	16.	214.
13:19-14:19	28.7	23.	208.	.897	32.9	48.	1818.6	17.	214.
13:[redacted]-14:49	28.5	23.	194.	.879	31.4	53.	1818.1	15.	195.
14:19-15:19	28.3	26.	173.	.867	30.2	57.	1817.9	18.	169.
14:49-15:49	28.5	24.	174.	.875	30.2	58.	1817.5	16.	169.
15:[redacted]-16:19	28.8	22.	187.	.885	30.5	57.	1817.1	14.	186.
15:[redacted]-16:49	29.1	23.	198.	.882	31.0	56.	1816.9	16.	189.
16:19-17:19	29.2	25.	194.	.873	31.0	57.	1816.4	17.	194.
16:[redacted]-17:49	29.2	28.	199.	.863	31.3	56.	1816.1	18.	205.
17:[redacted]-18:19	29.1	29.	197.	.853	31.0	57.	1816.2	19.	204.
17:49-18:49	29.1	29.	194.	.845	30.6	57.	1815.9	21.	200.
18:19-19:19	28.9	30.	198.	.836	30.1	58.	1815.5	21.	197.

Time	Temp-H	Wspd-H	Wdir-H	SolarRad	Temp	Humidity	Baron	Wind-Spd	Wind-Dir
8:49-19:49	28.7	30.	188.	.824	29.5	60.	1015.1	20.	195.
9:19-20:19	28.4	27.	188.	.815	28.5	64.	1015.3	16.	192.
9:49-20:49	27.9	26.	185.	.809	27.3	69.	1015.3	13.	183.
0:19-21:19	27.4	29.	185.	.802	26.5	78.	1015.5	13.	182.
0:49-21:49	27.8	29.	186.	.800	25.8	73.	1015.9	11.	185.
1:19-22:19	26.7	28.	187.	.800	25.3	75.	1016.0	8.	179.
1:49-22:49	26.2	27.	187.	.800	24.9	77.	1016.0	6.	174.
2:19-23:19	25.7	24.	190.	.800	24.2	81.	1016.3	5.	177.
2:49-23:49	25.4	22.	195.	.800	23.7	85.	1016.0	3.	188.
3:19-00:19	25.3	21.	195.	.800	23.5	86.	1015.9	3.	176.
3:49-00:49	25.3	23.	195.	.800	23.3	87.	1015.4	6.	169.
4/07/15									
0:19-01:19	25.2	25.	195.	.800	23.4	85.	1015.1	7.	164.
0:49-01:49	24.7	24.	197.	.800	23.6	85.	1015.0	7.	167.
1:19-02:19	24.3	25.	201.	.800	23.4	86.	1015.1	6.	184.
1:49-02:49	24.5	26.	204.	.800	22.5	87.	1015.1	7.	191.
2:19-03:19	24.8	26.	208.	.800	23.5	88.	1015.0	6.	191.
2:49-03:49	24.7	24.	204.	.800	23.5	89.	1015.0	6.	169.
3:19-04:19	24.5	23.	201.	.800	23.3	90.	1015.0	7.	163.
3:49-04:49	24.3	24.	201.	.800	23.2	90.	1015.0	7.	170.
4:19-05:19	24.1	25.	201.	.800	23.0	91.	1014.7	8.	174.
4:49-05:49	23.9	26.	201.	.800	22.8	92.	1014.2	8.	175.
5:19-06:19	23.6	29.	205.	.800	22.7	92.	1014.1	8.	189.
5:49-06:49	23.5	30.	207.	.802	22.7	92.	1014.1	9.	195.
6:19-07:19	23.3	28.	205.	.805	22.7	91.	1014.0	9.	194.
6:49-07:49	23.1	27.	203.	.809	23.1	90.	1014.0	9.	191.
7:19-08:19	23.2	26.	201.	.813	23.7	88.	1013.9	9.	186.
7:49-08:49	-	-	-	-	-	-	-	-	-
8:19-09:19	-	-	-	-	-	-	-	-	-
8:49-09:49	-	-	-	-	-	-	-	-	-
9:19-10:19	-	-	-	-	-	-	-	-	-
9:49-10:49	-	-	-	-	-	-	-	-	-
0:19-11:19	24.8	24.	196.	.839	25.9	80.	1012.7	15.	202.
0:49-11:49	24.6	24.	199.	.860	27.2	76.	1012.2	17.	206.
1:19-12:19	25.2	26.	199.	.869	28.1	73.	1011.9	18.	207.
1:49-12:49	25.3	26.	196.	.854	27.9	73.	1011.4	19.	205.
2:19-13:19	25.8	25.	195.	.823	26.7	77.	1011.0	18.	203.
2:49-13:49	24.6	25.	195.	.810	25.7	80.	1010.9	15.	202.
3:19-14:19	24.4	25.	197.	.819	25.7	80.	1010.5	14.	206.
3:49-14:49	24.6	28.	199.	.829	26.3	77.	1010.0	16.	208.
4:19-15:19	24.9	29.	204.	.856	27.4	73.	1010.0	18.	212.
4:49-15:49	25.2	32.	205.	.865	28.0	71.	1010.0	20.	215.
5:19-16:19	25.4	33.	203.	.853	28.0	71.	1009.7	22.	215.
5:49-16:49	25.4	30.	203.	.861	28.1	71.	1009.2	20.	214.
6:19-17:19	25.5	26.	201.	.862	28.1	73.	1009.0	17.	210.
6:49-17:49	25.9	24.	202.	.853	28.3	73.	1008.9	15.	210.
7:19-18:19	26.3	27.	206.	.841	28.5	72.	1008.4	15.	214.
7:49-18:49	26.8	24.	217.	.836	29.0	70.	1008.0	13.	229.
8:19-19:19	27.3	24.	237.	.833	29.9	63.	1008.9	14.	260.
8:49-19:49	27.3	26.	250.	.823	29.9	58.	1008.0	17.	276.
9:19-20:19	27.1	24.	259.	.815	28.9	58.	1008.3	15.	284.
9:49-20:49	26.6	22.	260.	.808	27.8	62.	1008.3	11.	295.
0:19-21:19	26.2	27.	263.	.803	27.2	62.	1008.8	14.	286.
0:49-21:49	25.8	32.	267.	.801	26.8	58.	1009.1	21.	292.
1:19-22:19	25.1	32.	269.	.800	26.1	52.	1009.5	19.	294.

Time	Temp-H	Wspd-H	Wdir-H	SolarRad	Temp	Humidity	Barom	Wind-Spd	Wind-Dir
[redacted]-22:49	24.5	29.	264.	.000	24.9	55.	1009.9	12.	289.
[redacted]-23:19	24.0	29.	256.	.000	23.5	61.	1010.0	7.	270.
2:49-23:49	23.5	29.	253.	.000	22.6	65.	1010.0	6.	262.
[redacted]-00:19	23.3	30.	250.	.000	22.0	67.	1010.0	5.	255.
[redacted]-00:49	23.2	32.	245.	.000	21.4	69.	1010.0	3.	240.
4/07/16									
[redacted]-01:19	22.9	32.	244.	.000	21.2	70.	1009.8	4.	239.
[redacted]-01:49	22.5	31.	240.	.000	20.9	72.	1009.5	4.	234.
1:19-02:19	22.2	32.	235.	.000	20.5	75.	1009.1	3.	225.
1:49-02:49	22.0	34.	238.	.000	20.3	77.	1009.0	4.	239.
[redacted]-03:19	21.5	33.	243.	.000	20.1	77.	1009.0	5.	243.
[redacted]-03:49	20.6	30.	247.	.000	19.9	79.	1009.0	5.	246.
3:19-04:19	19.9	30.	255.	.000	19.6	80.	1009.0	5.	272.
[redacted]-04:49	19.6	33.	259.	.000	19.8	80.	1009.0	10.	283.
[redacted]-05:19	19.2	33.	265.	.000	19.9	81.	1009.0	13.	289.
4:49-05:49	18.8	31.	273.	.000	19.8	82.	1009.0	14.	295.
[redacted]-06:19	18.5	31.	278.	.000	19.5	85.	1009.2	14.	301.
[redacted]-06:49	18.2	31.	279.	.002	19.4	86.	1009.6	15.	303.
6:19-07:19	17.7	29.	277.	.006	19.3	86.	1010.0	16.	302.
6:49-07:49	17.6	25.	277.	.013	19.5	85.	1010.0	15.	305.
[redacted]-08:19	17.8	22.	279.	.026	20.1	81.	1010.1	16.	309.
7:49-08:49	18.3	23.	281.	.038	21.1	75.	1010.1	17.	313.
8:19-09:19	18.8	23.	274.	.048	21.7	71.	1010.1	19.	304.
[redacted]-09:49	19.8	24.	261.	.059	22.4	69.	1010.0	20.	287.
[redacted]-10:19	19.2	26.	259.	.068	23.0	67.	1010.0	21.	285.
9:49-10:49	19.4	27.	268.	.076	22.9	65.	1010.0	22.	296.
[redacted]-11:19	19.6	28.	273.	.080	23.0	64.	1010.0	23.	301.
[redacted]-11:49	19.8	27.	269.	.079	23.5	63.	1010.0	22.	296.
11:19-12:19	20.2	29.	266.	.085	23.9	60.	1010.0	23.	292.
[redacted]-12:49	20.6	30.	271.	.099	24.2	57.	1010.0	24.	296.
[redacted]-13:19	21.0	28.	270.	.102	24.0	55.	1010.0	23.	296.
12:49-13:49	21.4	26.	267.	.093	25.6	53.	1010.0	22.	293.
[redacted]-14:19	21.6	28.	271.	.071	25.3	53.	1010.0	23.	296.
[redacted]-14:49	21.7	29.	274.	.064	24.9	55.	1010.0	23.	299.
14:19-15:19	21.9	30.	281.	.056	25.6	53.	1010.1	23.	307.
14:49-15:49	22.0	30.	281.	.047	25.6	53.	1010.1	23.	306.
[redacted]-16:19	22.2	25.	276.	.049	25.0	55.	1010.0	20.	298.
[redacted]-16:49	22.5	24.	276.	.049	25.3	54.	1010.0	19.	299.
16:19-17:19	22.9	23.	277.	.065	26.0	52.	1010.0	18.	299.
[redacted]-17:49	23.2	25.	278.	.067	26.3	50.	1009.9	19.	299.
[redacted]-18:19	23.3	25.	279.	.057	26.2	49.	1009.6	20.	301.
17:49-18:49	23.4	23.	280.	.049	26.3	48.	1009.3	18.	303.
[redacted]-19:19	23.5	22.	282.	.039	26.3	47.	1009.1	17.	306.
[redacted]-19:49	23.4	19.	290.	.030	26.3	47.	1009.0	13.	313.
19:19-20:19	23.2	16.	297.	.019	25.9	47.	1009.2	9.	322.
19:49-20:49	22.9	16.	295.	.012	25.0	50.	1009.6	6.	325.
[redacted]-21:19	22.7	16.	290.	.003	23.5	56.	1009.5	3.	323.
[redacted]-21:49	22.5	13.	276.	.000	21.0	70.	1009.5	0.	309.
21:19-22:19	22.4	14.	262.	.000	19.0	83.	1009.9	0.	217.
[redacted]-22:49	22.3	17.	255.	.000	18.3	86.	1010.0	0.	210.
[redacted]-23:19	22.2	19.	255.	.000	17.8	89.	1010.0	0.	246.
22:49-23:49	22.1	22.	257.	.000	17.6	89.	1010.0	2.	241.
[redacted]-00:19	21.7	24.	256.	.000	18.0	83.	1010.0	3.	249.
[redacted]-00:49	20.2	17.	269.	.000	17.9	79.	1010.0	1.	352.
/07/17									
[redacted]-01:19	19.1	10.	302.	.000	17.2	81.	1010.0	2.	27.

Time	Temp-H	Wsod-H	Wdir-H	SolarRad	Temp	Humidity	Baron	Wind-Spd	Wind-Dir
0:49-01:49	19.1	7.	297.	.000	16.4	84.	1009.8	1.	157.
1:19-02:19	19.0	4.	242.	.000	16.1	87.	1009.6	2.	169.
1:49-02:49	18.5	10.	213.	.000	16.4	89.	1009.7	3.	170.
2:19-03:19	18.4	15.	211.	.000	16.6	91.	1009.4	2.	168.
2:49-03:49	18.6	19.	210.	.000	16.8	91.	1009.0	3.	166.
3:19-04:19	18.7	21.	210.	.000	16.7	90.	1008.6	4.	167.
3:49-04:49	18.7	23.	209.	.000	16.7	92.	1008.4	4.	170.
4:19-05:19	18.7	24.	213.	.000	16.7	94.	1008.6	3.	214.
4:49-05:49	18.6	22.	216.	.000	16.4	96.	1008.5	2.	238.
5:19-06:19	18.4	21.	212.	.000	16.4	96.	1008.3	2.	286.
5:49-06:49	18.4	22.	210.	.002	16.9	92.	1008.1	4.	194.
6:19-07:19	18.5	24.	210.	.006	17.9	87.	1008.1	7.	197.
6:49-07:49	18.7	27.	210.	.012	19.0	81.	1008.1	9.	202.
7:19-08:19	18.9	27.	207.	.015	19.0	79.	1008.0	11.	200.
7:49-08:49	19.1	26.	199.	.016	20.4	79.	1008.0	13.	191.
8:19-09:19	19.4	27.	193.	.014	20.9	77.	1007.8	16.	187.
8:49-09:49	19.7	25.	195.	.012	9.9	65.	998.5	15.	194.
9:19-10:19	19.8	23.	198.	.034	4.9	58.	993.8	16.	201.
9:49-10:49	20.4	24.	199.	.055	17.5	61.	1002.5	18.	205.
0:19-11:19	20.9	23.	201.	.040	23.7	64.	1006.5	17.	211.
0:49-11:49	20.6	23.	208.	.020	22.9	69.	1006.5	14.	219.
1:19-12:19	19.3	22.	217.	.014	21.0	81.	1006.9	11.	229.
1:49-12:49	17.9	24.	209.	.013	19.2	94.	1006.7	11.	213.
2:19-13:19	17.9	26.	198.	.035	19.5	93.	1006.3	14.	199.
2:49-13:49	19.0	24.	199.	.072	21.7	85.	1006.0	14.	204.
3:19-14:19	20.1	23.	203.	.090	24.0	76.	1006.0	14.	204.
3:49-14:49	20.9	25.	204.	.082	24.0	72.	1005.5	16.	217.
4:19-15:19	21.1	27.	197.	.078	24.5	74.	1005.1	20.	205.
4:49-15:49	21.4	33.	192.	.087	24.5	74.	1004.8	25.	200.
5:19-16:19	21.9	37.	193.	.088	24.8	73.	1004.3	29.	201.
5:49-16:49	22.2	39.	197.	.052	24.6	74.	1003.6	28.	206.
6:19-17:19	21.9	35.	200.	.012	23.7	76.	1003.6	24.	212.
6:49-17:49	21.9	33.	203.	.021	23.4	77.	1003.8	22.	216.
7:19-18:19	21.7	30.	208.	.044	23.9	73.	1003.7	21.	223.
7:49-18:49	21.0	25.	212.	.039	23.7	72.	1003.4	17.	226.
8:19-19:19	19.8	23.	205.	.015	22.0	79.	1003.6	15.	216.
8:49-19:49	19.0	22.	201.	.005	20.8	84.	1004.0	14.	213.
9:19-20:19	19.0	25.	207.	.007	20.7	84.	1004.2	15.	221.
9:49-20:49	19.1	26.	215.	.008	21.0	84.	1004.5	14.	230.
0:19-21:19	19.1	22.	216.	.005	20.9	86.	1004.8	11.	229.
0:49-21:49	19.5	19.	222.	.001	20.5	90.	1005.0	7.	227.
1:19-22:19	20.0	17.	249.	.000	20.2	91.	1005.1	5.	259.
1:49-22:49	20.0	17.	265.	.000	19.7	90.	1005.6	5.	272.
2:19-23:19	19.6	21.	266.	.000	19.2	93.	1005.9	5.	280.
2:49-23:49	19.1	26.	268.	.000	18.9	74.	1005.9	7.	288.
3:19-00:19	18.9	25.	267.	.000	18.3	73.	1005.9	6.	286.
3:49-00:49	18.5	24.	266.	.000	17.9	74.	1005.9	5.	285.
/07/18									
3:19-01:19	18.0	28.	261.	.000	17.5	74.	1005.9	7.	288.
3:49-01:49	17.7	30.	258.	.000	16.9	77.	1006.0	6.	271.
4:19-02:19	17.3	27.	259.	.000	16.4	80.	1006.3	4.	262.
4:49-02:49	16.9	24.	261.	.000	16.0	81.	1005.9	3.	257.
5:19-03:19	16.6	23.	263.	.000	15.5	82.	1005.6	3.	260.
5:49-03:49	16.1	23.	264.	.000	15.1	85.	1005.6	3.	270.
6:19-04:19	15.7	24.	268.	.000	14.6	88.	1005.4	3.	274.

Time	Temp-H	Wspd-H	Wdir-H	SolarRad	Temp	Humidity	Barom	Wind-Spd	Wind-Dir
[illegible]-04:49	15.6	23.	269.	.000	14.4	89.	1005.1	3.	262.
[illegible]-05:19	15.4	24.	265.	.000	14.3	90.	1005.2	4.	262.
24:49-05:49	15.3	26.	265.	.000	14.4	89.	1005.5	6.	272.
[illegible]-06:19	15.1	27.	269.	.000	14.6	89.	1005.8	7.	281.
[illegible]-06:49	14.7	28.	270.	.001	14.7	89.	1005.9	9.	283.
06:19-07:19	14.3	28.	272.	.006	14.9	89.	1006.0	10.	290.
06:49-07:49	14.0	27.	278.	.010	15.6	88.	1006.0	12.	296.
[illegible]-08:19	13.9	25.	283.	.011	16.1	88.	1006.4	15.	312.
07:49-08:49	14.2	24.	284.	.012	16.4	89.	1006.9	18.	313.
08:19-09:19	-	-	-	-	-	-	-	-	-
[illegible]-09:49	-	-	-	-	-	-	-	-	-
09:[illegible]-10:19	-	-	-	-	-	-	-	-	-
09:49-10:49	15.0	19.	288.	.045	18.4	81.	1008.0	15.	315.
[illegible]-11:19	15.5	20.	290.	.045	18.8	76.	1008.1	16.	317.
[illegible]-11:49	16.1	21.	295.	.060	20.1	69.	1008.5	16.	322.
11:19-12:19	16.5	22.	295.	.072	21.2	64.	1008.9	16.	325.
[illegible]-12:49	16.6	22.	290.	.066	20.7	66.	1009.0	16.	321.
[illegible]-13:19	16.8	21.	291.	.059	20.7	67.	1009.2	17.	320.
12:49-13:49	17.3	21.	299.	.062	21.5	65.	1009.6	15.	324.
[illegible]-14:19	17.4	22.	299.	.057	21.7	65.	1009.9	15.	320.
[illegible]-14:49	17.4	21.	300.	.059	21.8	65.	1010.0	15.	329.
14:19-15:19	17.7	17.	312.	.067	23.0	63.	1010.0	11.	333.
14:49-15:49	17.7	17.	334.	.052	23.3	65.	1010.1	9.	360.
[illegible]-16:19	17.5	20.	347.	.037	22.8	67.	1010.5	10.	13.
[illegible]-16:49	17.5	19.	348.	.033	22.6	68.	1011.0	10.	15.
16:19-17:19	17.5	18.	348.	.027	22.3	71.	1011.3	9.	20.
[illegible]-17:49	17.3	20.	338.	.036	21.7	75.	1011.6	10.	24.
[illegible]-18:19	17.7	20.	346.	.049	22.3	72.	1012.0	10.	19.
17:49-18:49	17.8	20.	346.	.049	23.3	67.	1012.3	11.	18.
[illegible]-19:19	17.4	22.	349.	.039	22.8	67.	1012.8	11.	17.
[illegible]-19:49	17.3	21.	348.	.029	22.2	68.	1013.0	10.	14.
19:19-20:19	17.4	20.	348.	.019	21.4	69.	1013.1	8.	15.
19:49-20:49	17.5	16.	347.	.010	20.4	70.	1013.5	5.	13.
[illegible]-21:19	17.4	12.	349.	.003	19.9	76.	1013.9	2.	14.
20:49-21:49	17.3	6.	356.	.001	16.9	83.	1014.0	0.	73.
21:19-22:19	17.2	1.	360.	.000	15.6	90.	1014.0	0.	153.
[illegible]-22:49	17.2	0.	144.	.000	15.1	95.	1014.4	0.	178.
22:[illegible]-23:19	17.3	1.	158.	.000	14.7	97.	1014.8	0.	181.
22:49-23:49	17.3	4.	174.	.000	14.5	99.	1015.0	1.	177.
[illegible]-00:19	17.4	6.	182.	.000	14.5	100.	1015.2	1.	181.
[illegible]-00:49	17.5	8.	188.	.000	14.4	100.	1015.0	1.	195.
06/07/19									
[illegible]-01:19	17.4	10.	195.	.000	14.1	100.	1015.2	1.	221.
[illegible]-01:49	17.2	12.	205.	.000	13.7	102.	1015.6	0.	248.
01:19-02:19	17.3	14.	213.	.000	13.3	100.	1015.9	0.	252.
[illegible]-02:49	17.4	17.	215.	.000	13.2	100.	1015.9	1.	170.
[illegible]-03:19	17.3	22.	213.	.000	13.6	99.	1016.2	2.	184.
02:49-03:49	17.8	26.	214.	.000	14.2	99.	1016.8	3.	200.
[illegible]-04:19	17.8	28.	214.	.000	14.6	100.	1016.3	3.	219.
[illegible]-04:49	17.1	28.	213.	.000	14.7	100.	1016.7	2.	240.
04:[illegible]-05:19	16.7	26.	220.	.000	14.3	100.	1017.0	3.	254.
04:49-05:49	16.6	24.	234.	.000	14.1	100.	1017.0	5.	257.
[illegible]-06:19	17.1	21.	253.	.000	14.0	100.	1017.1	6.	260.
[illegible]-06:49	17.8	20.	264.	.002	13.7	100.	1017.4	3.	266.
06:19-07:19	18.0	20.	263.	.005	13.5	100.	1017.0	2.	279.

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ime	Temp-H	Wspd-H	Wdir-H	SolarRad	Temp	Humidity	Barom	Wind-Spd	Wind-Dir
:49-07:49	18.1	21.	259.	.812	14.2	98.	1019.8	4.	288.
:19-08:19	18.8	22.	259.	.823	16.0	91.	1019.2	5.	277.
:49-08:49	17.5	20.	261.	.834	18.8	81.	1018.6	9.	279.
:19-09:19	16.2	14.	263.	.847	19.7	73.	1018.9	10.	284.

Statistics	Temp-H	Wspd-H	Wdir-H	SolarRad	Temp	Humidity	Barom	Wind-Spd	Wind-Dir
Units	d C	km/h	deg	W/cm^2	d C	%-rel	mbar-msl	km/h	deg
Arith. Mean	20.1	-	-	.0275	21.4	77.1	1012.2	-	-
Std. Dev.	4.1	-	-	.0347	5.0	17.8	4.7	-	-
Min Reading	-38.1	.0	.1	.0000	-40.3	34.3	959.9	.0	.0
Max Reading	64.2	55.9	360.0	.1274	34.9	100.0	1022.9	44.9	360.0
Min Average	9.3	.1	.3	.0000	4.9	36.5	993.8	.0	.0
Max Average	29.2	45.3	359.8	.1134	33.5	100.0	1022.4	34.6	359.9
# Valid Rdgs	6565.	6565.	6565.	7151.	7151.	7146.	7151.	7151.	7151.
Min.Det.Lev	-	-	-	-	-	-	950.0	-	-

Invalid Data / Not Calculated
nd Average is less than Min. Detectable Level
One or more readings Missing
Average is above Provincial Std/Criteria

Percent Valid Data Required for Valid Average: 90.0 %
Averaging Started at Nearest: .0 min

Statistics	SolarRad	Temp	Humidity	Barom	Wind-Spd	Wind-Dir
Units	W/cm^2	d C	%-rel	mbar-msl	km/h	deg
Arith. Mean	.0245	20.7	71.9	1012.1	-	-
Std. Dev.	.0310	5.3	16.4	7.1	-	-
Min Reading	.0000	6.2	1.0	993.8	.0	.0
Max Reading	.1154	117.0	100.0	1027.0	49.2	359.9
Min Average	.0000	6.4	21.7	993.9	.0	.0
Max Average	.0957	59.9	100.0	1027.0	43.5	359.9
# Valid Rdgs	7113.	7130.	7130.	7130.	7130.	7130.
Min.Det.Lev	-	-	-	950.0	-	-

- \- Invalid Data / Not Calculated
- nd Average is less than Min. Detectable Level
- n One or more readings Missing
- * Average is above Provincial Std/Criteria

Percent Valid Data Required for Valid Average: 90.0 %
Averaging Started at Nearest: .0 min

8. ACOUSTIC SOUNDER DATA FOR SARNIA, JUNE-JULY 1984

METHODOLOGY OF QUALITY CONTROL AND DATA ABSTRACTION OF ACOUSTIC SOUNDER SIGNALS

From each of the monthly rolls of acoustic sounder signals, the initial time of periodical time-setting is noted. A compatibility check is next carried-out on the total number of hour-markings and the actual time elapsed between each two consecutive markings. Next, the length of each individual hourly span on the chart is checked against a standard hourly span. This procedure is required to ascertain that the time marking and revolution of the roll for each hour was accurate.

Echoes from the acoustic sounder are now classified according to the accepted nomenclature. When applicable, additional qualifications are attached to the signature to indicate an important and/or concurrent meteorological event (precipitation, wind, strong noise). Signature are next averaged hourly and expressed in terms of their nomenclature, multiple features, elevation, intensity, time - evolution. Where applicable, the impact of synoptic scale system on the signal is also briefly discussed.

RETRIEVAL OF INFORMATION FROM POOR QUALITY CHARTS.

The main source of poor-quality signals can generally be traced either to paper jamming or to the slowing-down of the turning of the roll. Paper jamming describes the condition in which the roll has come to a complete stop. The point at which this has occurred will be found to be overmarked and the time of resetting is generally not coincidental with the time in which the jamming has occurred.

The initial step in the data retrieval consists of rolling back the chart to the position of the previous time-mark setting and subsequently forward in time with tentative hourly marking introduced at each standard hourly span. Standard hourly spans are checked with those produced by the sounder. A tentative date is thus produced which indicates the actual hour and day in which the jamming has occurred. Synoptic charts are next compared for expected signatures, diurnal trends of the acoustic sounder signal, precipitation patterns on synoptic scale, strong winds etc. Approximate time of these events as extracted from synoptic charts are verified against the sounder signatures. When the comparison results in incompatibility in expected and observed signatures, their time tendencies and the sequence of events (observed versus expected), the doubtful data is rejected. The remainder of the data is processed in the manner described in the previous section.

When the roll-turning mechanism slows-down this is found to result in an unevenly spaced hour marking, the standard hour span on a chart is found to be contracted. When signal overlapping has not occurred the retrieval of information proceeds as in the previous section. rejection occurs when there is evidence of overmarking

GROUND BASED STABLE LAYER (GBSL)

By far this is one of the most frequent signatures which form slightly after sunset and persist up to slightly after sunrise. Thermally, this signature is related to the onset and persistence of a stable inversive layer in that part of the atmosphere which is close to the surface.

Turbulence in these situations is generated by the wind shear. Depending upon the intensity of the latter, and that of nocturnal radiation and on differential thermal advection, the thickness of this layer may vary. In general, however, the echo signature corresponding to this type of situation consists of dark bands with bases at or very nearly close to the ground and of thickness from 30 to 250-300 meters. The variation in the height of the inversion is often found to be associated with the reversal of the solenoidal induced flow(for example,in the early evening the lake breeze flow changes to calm wind conditions and this may subsequently be followed by land breeze). Similarly, the top of the GBSL may be eroded by an increase in the vertical shear of the horizontal wind at that level. Under such conditions the appearance of the sounder's echo may be less homogeneous and its top not very well defined.

Because the occurrence of the GBSL is most frequent during weak pressure gradient and stable atmospheric conditions in the lower atmosphere, the effects of both radiation and of the sensible heat flux is most evident.

Similarly, the effect of clear sky-conditions is found to enhance an earlier onset of the GBSL . With the persistence of an anticyclonic circulation in the lower atmosphere it is not uncommon to observe a thicker GBSL, an indication of the intermingling of the low level subsidence inversion with the GBSL.

MECHANICAL MIXING.

Induced by varying combination and intensities of thermal stratifications and wind shear in the lower atmosphere close to the surface, Mechanical Mixing is associated with a variety of changes in the signatures of the acoustic sounders.

By way of illustration, intense mechanical mixing during a summer day shortly after sunrise can either delay or prevent altogether the onset of CP conditions. Moreover, it may cause the CP to be shallower and to decay earlier. Whether during day or night, summer or winter, the onset of MM conditions are often found to induce in existing GBSL rapid and sharp oscillations in the tops and thickness of the GBSL. For example, during March 2 1982 with surface winds force ranging between 12-15 knots in the region the GBSL was found to fluctuate 400 meters in the morning hours.

In general, surface strong winds as observed from synoptic charts seem to be strongly associated with the decrease in the stratified structure of the GBSL and in the appearance of ragged signals at the top of the GBSL.

CONVECTIVE PLUMES.

From a brief visual scanning of the acoustic sounder signals, it seems that both the time of the onset of CP conditions as well as their frequency are strongly seasonally dependent. Convective plumes (CP) were noticeably less frequent in winter, their life span shorter in the diurnal cycle and their tops substantially less vertically developed. By way of illustration, on January 20th 1982 with surface anticyclonic flow, CP conditions developed at 1100 EST, ended at 1600 EST and their maximum tops were not above 130 meters. By way of contrast on July 23 1982 the diurnal cycle in the development of the CP conditions show them to have developed at 0800 EST to have decayed at 1900 EST and that their tops reached 300 meters.

Another important effect on convective plume intensity is in a decrease in solar radiation reaching the ground. When extensive low-level cloudiness is present in the morning hours (Examole : May 1st 1982) the ensuing CP activity is delayed and its vertical extent reduced. During May 1st the CP activity began at approximately 1100 EST (Compare that with the 0800 of July 23). In addition the CP activity ended at approximately 1600 EST (Comapre , again with the 1900 EST of July 23). Finally the top of the CP activity was found to have a maximum of 150 meters. Surface wind during the day were generally weak.

ACOUSTIC SOUNDER — TETROLIA - SALINA

JUNE 27 1984

HOUR	HEIGHTS	DESCRIPTION	COM
00			
01			
02			
03			
04			
05			
06			
07			
08			
09			
10			
11			
12			
13			
14			
15			
16			
17			
18			
19			
20			
21			
22			
23			

COMMENTS:

HOUR	HEIGHTS	DESCRIPTION	COM
00			
01			
02			
03			
04			
05			
06			
07			
08			
09			
10			
11			
12			
13			
14			
15			
16			
17			
18			
19			
20			
21			
22			
23			

COMMENTS:

HOUR	HEIGHTS	DESCRIPTION	COM
00			
01			
02			
03			
04		STARTS	
05			
06			
07		12m	
08			
09		ROLL AT	
10			
11			
12	40	MM	1
13	40	MM	1
14	40	MM	1
15	50	MM	1
16	40	MM	1
17	30	MM	1
18	X	"	
19	X	"	"
20	"	"	"
21	X	X	3
22	50	REFL	0
23	80	REFL	0

COMMENTS:

STRONG STIRRING IN THE LOW LEVEL + PREC. ECHOES

ACOUSTIC SOUNDER

TETRACH - SARNIA

JUNE 28 1984

HOUR	HEIGHTS	DESCRIPTION	CONF
00	60	GBSL	0
01	60	GBSL	0
02	50	GBSL	0
03	50	GBSL	0
04	40	GBSL	0
05	80	GBSL	0
06	80	GBSL	0
07	100	GBSL	0
08	60	GBSL	0
09	80	CP	1
10	50	CP	1
11	110	CP	0
12	120	CP	0
13	120	CP	1
14	120	CP	1
15	180	CP	1
16	50	CP	0
17	80	CP	1
18	60	CP	0
19	30	GBSL	0
20	30	GBSL	0
21	40	GBSL	0
22	40	GBSL	0
23	60	GBSL	0

COMMENTS:

JUNE 29 1984

HOUR	HEIGHTS	DESCRIPTION	CONF
00	50	GBSL	0
01	50	GBSL	0
02	50	GBSL	0
03	40	GBSL	0
04	40	GBSL	1
05	40	GBSL	1
06	60	GBSL	1
07	60	EL	1
08	100	EL	1
09	100 200	CP EL	1
10	X	X	3
11	110 310	CP EL	1
12	180, 310	CP EL	1
13	200 320	CP EL	1
14	150, 400	CP EL	1
15	200 600	CP EL	1
16	160, 600	CP EL	1
17	180, 650	CP EL	1
18	120, 600	CP EL	1
19	120 600	CP EL	1
20	120 550	CP EL	1
21	50, 260 450	[illegible]	1
22	[illegible]	EL EL	1
23	100 300	GBSL EL	1

COMMENTS:

JUNE 30 1984

HOUR	HEIGHTS	DESCRIPTION	CONF
00	300	EL	1
01	40, 310	GBSL EL	1
02	300	EL	1
03	330	EL	1
04	60, 300	GBSL EL	1
05	100 [illegible]	GBSL EL	1
06	80, 120 300	GBSL EL EL	1
07	60, 100	GBSL EL	1
08	60, 100	GBSL EL	1
09	60	EL	1
10	60, 80	CP, EL	1
11	210	CP	1
12	310	CP	1
13	310	CP	1
14	300	CP	1
15	240	CP	1
16	220	CP	1
17	310	CP	1
18	300	CP	1
19	240	CP	0
20	220	CP	0
21	120	EL	6
22	60	EL	6
23	60	EL	6

COMMENTS:

ECHOSTAR SOUNDER

PETROLIA SARNIA

JULY 1 1984

HOUR	HEIGHTS	DESCRIPTION	COM
00	40	EL	6
01	50	GBSL	0
02	100	GBSL	0
03	140	GBSL	4
04	110	GBSL	0
05	50	GBSL	0
06	80	GBSL	0
07	80	GBSL	0
08	80	GBSL	0
09	50	GBSL	0
10	210	CP	0
11	270	CP	0
12	300	CP	0
13	300	CP	0
14	300	CP	0
15	300	CP	0
16	260	CP	0
17	200	CP	0
18	180	CP	1
19	200	MM	0
20	110	MM	1
21	60	GBSL	1
22	60	GBSL	1
23	50	GBSL	1

COMMENTS:

JULY 2 1984

HOUR	HEIGHTS	DESCRIPTION	COM
00	40	GBSL	0
01	40	GBSL	0
02	40	GBSL	0
03	30	GBSL	0
04	60	GBSL	0
05	60	GBSL	1
06	60	GBSL	1
07	80	GBSL	1
08	80	GBSL	0
09	100	CP	0
10	160	CP	0
11	200	CP	0
12	200	CP	0
13	180	CP	0
14	170	CP	0
15	160	CP	0
16	140	CP	0
17	120	CP	0
18	240	MM	7
19	60	MM	7
20	60	MM	0
21	40	GBSL	0
22	40	GBSL	0
23	40	GBSL	0

COMMENTS:

JULY 3 1984

HOUR	HEIGHTS	DESCRIPTION	COM
00	30	GBSL	0
01	30, 60	GBSL, EL	0
02	30 60	GBSL, EL	0
03	80	GBSL	0
04	80	GBSL	0
05	50	GBSL	0
06	80	GBSL	0
07	70	GBSL	0
08	80	GBSL	1
09	100	MM	1
10	40 60	CP, EL	1
11	60 100	CP EL	1
12	110	CP	1
13	160	CP	1
14	150	CP	1
15	140	CP	1
16	140	CP	5
17	120	CP	5
18	X	X	3
19	X	X	3
20	X	X	3
21	5.	GBSL	0
22	50 100	GBSL EL	4
23	8.	GBSL	0

COMMENTS:

PETROLIA SHELTA

JULY 4 1984

HOUR	HEIGHT	DESCRIPTION	COV
00	90	GBSL	0
01	80	GBSL	0
02	100	GBSL	0
03	120	GBSL	1
04	100	GBSL	0
05	140	MM	0
06	200	MM	0
07	160	MM	0
08	80	GBSL	0
09	100	GBSL	0
10	100, 220	CP, EL	1
11	200 240	CP EL	1
12	200 240	CP, EL	1
13	200	CP	1
14	200	CP	1
15	160	CP	1
16	80	CP	1
17	X	X	3
18	60	MM	1
19	50	GBSL	1
20	50	GBSL	1
21	40	GBSL	1
22	80	GBSL	1
23	80	GBSL	1

COMMENTS:

JULY 5 1984

HOUR	HEIGHTS	DESCRIPTION	COV
00	60	GBSL	0
01	80	GBSL	0
02	60	GBSL	0
03	50	GBSL	0
04	60	GBSL	4
05	80	GBSL	4
06	80	GBSL	0
07	70	GBSL	0
08	80	GBSL	0
09	80	GBSL	0
10	40, 80	GBSL, EL	0
11	60	EL	0
12	80, 170	CP, EL	0
13	100 120	CP, EL	0
14	200	CP	0
15	200	CP	1
16	200	MM	7
17	230	MM	7
18	180	MM	7
19	60, 160	MM EL	6
20	100	EL	1
21	160 200	MM EL	1
22	60 [illegible]	GBSL EL	1
23	50	GBSL	1

COMMENTS: COLD FRONTAL PASSAGE IN AFTERNOON ASSOCIATED

JULY 6 1984

HOUR	HEIGHTS	DESCRIPTION	COV
00	90	GBSL	0
01	100	GBSL	0
02	130	GBSL	4
03	80	GBSL	0
04	60	GBSL	0
05	140	MM	0
06	160	MM	1
07	200	MM	1
08	120	EL	1
09	X	X	3
10	200	MM	1
11	X	X	3
12	150, 200	CP, EL	1
13	200	CP	1
14	X	X	3
15	180	CP	1
16	300	CP	1
17	140	CP	
18	200	CP	5
19	X	X	3
20	X	X	3
21	100	GBSL	1
22	100	GBSL	1
23	100	GBSL	1

COMMENTS: INTERM. PRECIP ECHOES BETWEEN 0700-2100

TETROLIA SARAH

July 7				July 8				July 9 1984			
No.	HEIGHTS	DESCRIPTION	CM	No.	HEIGHTS	DESCRIPTION	CM	No.	HEIGHTS	DESCRIPTION	CM
00	300	MM	1	00	40	GBSL	1	00	50	GBSL	0
01	300	MM	1	01	40	GBSL	4	01	50	GBSL	0
02	300	MM	1	02	40	GBSL	1	02	50	GBSL	0
03	320	MM	1	03	60	GBSL	1	03	50	GBSL	0
04	350	MM	1	04	60	GBSL	1	04	60	GBSL	0
05	400	MM	1	05	60	GBSL	1	05	60	GBSL	0
06	480	MM	1	06	70	GBSL	4	06	70	GBSL	0
07	350	MM	1	07	40	GBSL	1	07	80	GBSL	1
08	300	MM	1	08	30	GBSL	1	08	60	EL	1
09	X	CP	3	09	50	GBSL	1	09	120	EL	5
10	X	CP	3	10	70	MM	1	10	X	X	3
11	X	CP	3	11	300	CP	0	11	X	CP	3
12	X	CP	3	12	340	CP	0	12	X	CP	3
13	X	X	3	13	300	CP	0	13	X	X	3
14	X	CP	3	14	250	CP	0	14	X	CP	3
15	X	X	3	15	200	CP	0	15	X	CP	3
16	300	CP	0	16	180	CP	0	16	X	CP	3
17	350	CP	0	17	200	CP	1	17	X	CP	3
18	180	CP	0	18	140	CP	0	18	X	CP	3
19	130	MM	7	19	100	MM	5	19	130	CP	3
20	50	GBSL	0	20	30	GBSL	1	20	240	EL	6
21	50	GBSL	0	21	50	GBSL	1	21	130	EL	6
22	50	GBSL	1	22	50	GBSL	1	22	120	MM	0
23	50	GBSL	1	23	60	GBSL	0	23	170	MM	0

COMMENTS: INTERMITTENT PRECIP ECHOES FROM LATE-MORNING THUNDERSTORMS

COMMENTS:

COMMENTS:

July 10

No.	HEIGHTS	DESCRIPTION	CM
00	80	GBSL	4
01	X	X	3
02	260	MM	7
03	60, 200	MM EL	7
04	60, 260	MM, EL	7
05	80, 120	MM, EL	1
06	80 120	MM, EL	1
07	220	MM	1
08	160	MM	1
09	140	MM	1
10	160	EL	1
11	140	MM	1
12	600	CP	0
13	800	CP	0
14	X	X	3
15	100	MM	1
16	100	MM	0
17	100	MM	0
18	100	MM	0
19	140	MM	0
20	170	MM	7
21	X	X	3
22	160	MM	7
23	60, 200	GBSL, EL	0

COMMENTS:
PRECIP ECHOES

July 11

No.	HEIGHTS	DESCRIPTION	CM
00	60	GBSL	
01	200	MM	7
02	200	MM	7
03	260	MM	7
04	200	MM	7
05	160	MM	7
06	140	MM	7
07	X	X	3
08	X	X	3
09	X	X	3
10	X	X	3
11	X	X	3
12	X	X	3
13	X	X	3
14	160	EL	1
15	120	EL	1
16	140	MM	1
17	200	CP	1
18	280	CP	5
19	X	X	3
20	X	X	3
21	X	X	3
22	80	GBSL	
23	80	GBSL	

COMMENTS:
PRECIP ECHOES

July 12 1984

No.	HEIGHTS	DESCRIPTION	CM
00	40	GBSL	
01	40	GBSL	
02	40	GBSL	
03	50	GBSL	
04	60	GBSL	
05	60	GBSL	
06	80	GBSL	
07	60	GBSL	
08	60	GBSL	
09	100	MM	
10	60, 130	CP, EL	
11	60, 110	CP, EL	
12	130	CP	
13	110	CP	
14	100	CP	
15	200	CP	
16	180	CP	
17	160	CP	
18	60	MM	
19	80	MM	
20	50	GBSL	
21	50	GBSL	
22		GBSL	
23	50	GBSL	

COMMENTS:

PETROLIA SHRIMP

July 13

HOUR	HEIGHTS	DESCRIPTION	CM
00	60	GBSL	0
01	60	GBSL	0
02	70	GBSL	0
03	40,60	GBSL, EL	0
04	60	GBSL	0
05	70	GBSL	4
06	35,60	GBSL EL	0
07	60	GBSL	1
08	50	GBSL	1
09	30	GBSL	0
10	120	MM	:
11	X	CP	3
12	X	CP	3
13	X	CP	3
14	X	CP	3
15	X	CP	3
16	X	CP	3
17	200	CP	0
18	100	MM	0
19	X	X	3
20	40	GBSL	0
21	40	GBSL	0
22	60	GBSL	0
23	60,100	GBSL, EL	0

COMMENTS:

July 14

HOUR	HEIGHTS	DESCRIPTION	CM
00	120	GBSL	0
01	100	GBSL	0
02	60,100	GBSL EL	0
03	120	GBSL	0
04	120	GBSL	0
05	100	GBSL	0
06	80	GBSL	0
07	50	GBSL	0
08	35	GBSL	4
09	70	GBSL	0
10	130	MM	0
11	60,100	CP, EL	6
12	140,300	CP, EL	6
13	200	CP	1
14	160	CP	1
15	140	CP	0
16	120	CP	0
17	100	CP	0
18	60	MM	0
19	X	X	3
20	X	X	3
21	80	GBSL	0
22	80	GBSL	0
23	80	GBSL	0

COMMENTS:

July 15 1980

HOUR	HEIGHTS	DESCRIPTION	CM
00	60	GBSL	0
01	60	GBSL	0
02	80	GBSL	0
03	110	GBSL	0
04	70	GBSL	0
05	60	GBSL	0
06	60	GBSL	0
07	80	GBSL	0
08	110	GBSL	0
09	180	MM	0
10	200	MM	0
11	100	EL	0
12	X	CP	3
13	X	CP	3
14	X	X	3
15	120	MM	1
16	120	MM	1
17	X	X	3
18	X	X	3
19	X	X	3
20	X	X	3
21	X	GBSL	0
22	X	GBSL	0
23	140	GBSL	0

COMMENTS:

July 16

HOUR	HEIGHTS	DESCRIPTION	CM
00	12.0	G.B.S.L.	0
01	1..	G.B.S.L.	0
02	6..	G.B.S.L.	0
03	'1	G.B.S.L.	0
04	1600	G.B.S.L.	0
05		G.B.S.L.	4
06	12..	G.B.S.L.	0
07	1'3	G.B.S.L.	1
08	12.0	G.B.S.L.	1
09	2..	MM	1
10	1'0 3..	C.P. E.L.	1
11	..	..	3
12	..	C.P.	13
13	..	C.P.	13
14	..	C.P.	13
15	..	C.P.	3
16	..	..	3
17	..	..	3
18	..	..	3
19	1..	G.B.S.L.	3
20	1..	G.B.S.L.	3
21	..	G.B.S.L.	3
22		..	3
23	..	MM	3

COMMENTS:

July 17

HOUR	HEIGHTS	DESCRIPTION	CM
00	2.0	M.M.	0
01	2.00	MM	0
02	1.4..	MM	0
03	1.2.0	MM	0
04	1.2..	MM	0
05	8..	G.B.S.L.	0
06	100	G.B.S.L.	0
07	12.0	G.B.S.L.	1
08	100	G.B.S.L.	1
09	12.0	G.B.S.L.	1
10	2.3.0	M.M.	1
11	150	C.P.	6
12	X	X	3
13	X	X	3
14	X	C.P.	3
15	X	C.P.	3
16	X	C.P.	3
17	X		3
18	X		3
19	X		3
20	2.6..	M.M.	7
21	3..	M.M.	7
22			0
23	8..	G.B.S.L.	0

COMMENTS:

July 18 1981

HOUR	HEIGHTS	DESCRIPTION	CM
00	1..	G.B.S.L.	0
01	6..	G.B.S.L.	0
02	8..	G.B.S.L.	0
03	...	G.B.S.L.	0
04	6..	G.B.S.L.	0
05	5..	G.B.S.L.	0
06	50	G.B.S.L.	1
07	8..	G.B.S.L.	1
08	1..	G.B.S.L.	0
09	2..	F.L.	0
10	3..	F.L.	0
11	X		3
12	X	C.P.	3
13	X	C.P.	3
14	X	C.P.	3
15	X	C.P.	3
16	X	C.P.	3
17	1..	C.P.	1
18	..	C.P.	1
19		C.P.	1
20		C.P.	1
21		G.B.S.L.	0
22		G.B.S.L.	0
23		G.B.S.L.	0

COMMENTS:

July 19 1984

HR	HEIGHTS	DESCRIPTION	CM
00			
01	60	GBSL	
02	60	GBSL	
03	140	GBSL	
04	50	GBSL	
05		GBSL	
06	40	GBSL EL	
07		GBSL	1
08	50	GBSL	1
09		GBSL	1
10	160	CP	1
11			3
12			3
13		CP	3
14		CP	3
15		CP	3
16		CP	
17	200	CP	1
18	160	CP	1
19	140		
20			
21	100		
22			
23			

COMMENTS:

July 20 1984

HR	HEIGHTS	DESCRIPTION	CM
00	70	GBSL	0
01	80	GBSL	0
02	110	GBSL	0
03	160	GBSL	0
04	160	GBSL	0
05	140	GBSL	0
06	100	GBSL	1
07	120	GBSL	1
08	70	GBSL	0
09	110	GBSL	0
10	140 160	CP	0
11	140	CP	2
12	120	CP	2
13		CP	2
14		CP	2
15		CP	2
16		CP	2
17		CP	2
18			3
19			3
20			3
21			3
22			3
23			3

COMMENTS:

July 21 1984

HR	HEIGHTS	DESCRIPTION	CM
00	140	GBSL	0
01			3
02			0
03		GBSL	0
04	50	GBSL	0
05	140	GBSL	0
06	130	GBSL	0
07	80	GBSL	4
08	80		0
09	60		
10	60 120	CP	0
11	200	CP	0
12	25	CP	0
13			0
14			1
15			3
16	20	CP	1
17	20	CP	1
18			3
19			1
20			1
21	140		1
22			
23			

COMMENTS: LIGHT INTERMITTENT PRECIP ECHOES.

HOLE	HEIGHTS	DESCRIPTION	CM
00	90	GBSL	1
01	150	GBSL, EL	6
02	40 100	GBSL, EL	6
03	50 120	GBSL, EL	6
04	20	GBSL	
05	10	GBSL	
06	80	GBSL	
07	20	GBSL	
08	120	GBSL	
09	30	GBSL	
10	100	CP	1
11	250	CP	1
12	1	1	1
13	200	CP	1
14	200	CP	1
15	200	CP	1
16	180	CP	1
17	1	CP	1
18	100	CP	
19			
20			
21	110	GBSL	
22	50	GBSL	
23	100	GBSL	

COMMENTS:

HOLE	HEIGHTS	DESCRIPTION	CM
00	60	GBSL	0
01	55	GBSL	0
02	45	GBSL	0
03	50	GBSL	0
04	60	GBSL	0
05	60	GBSL	0
06	60	GBSL	0
07	60	GBSL	1
08	80	GBSL	1
09	120	EL	1
10	80	EL	6
11	200	EL	1
12	100	CP	1
13	100	CP	1
14	200	CP	1
15		CP	1
16	160	CP	1
17	150	CP	1
18		CP	3
19		CP	3
20		CP	3
21			3
22	100	GBSL	1
23	100	GBSL	1

COMMENTS:

HOLE	HEIGHTS	DESCRIPTION	CM
00	100	MM	4
01	100	EL	6
02	100	EL	6
03		MM	1
04		GBSL, EL	6
05		GBSL, EL	6
06	60 150	GBSL, EL	6
07	100	GBSL, EL	6
08	60, 200	GBSL, EL	6
09	200	GBSL, EL	6
10	180 300	CP EL	5
11			
12			
13			
14			
15			
16			
17			
18			
19			
20			
21			
22			
23			

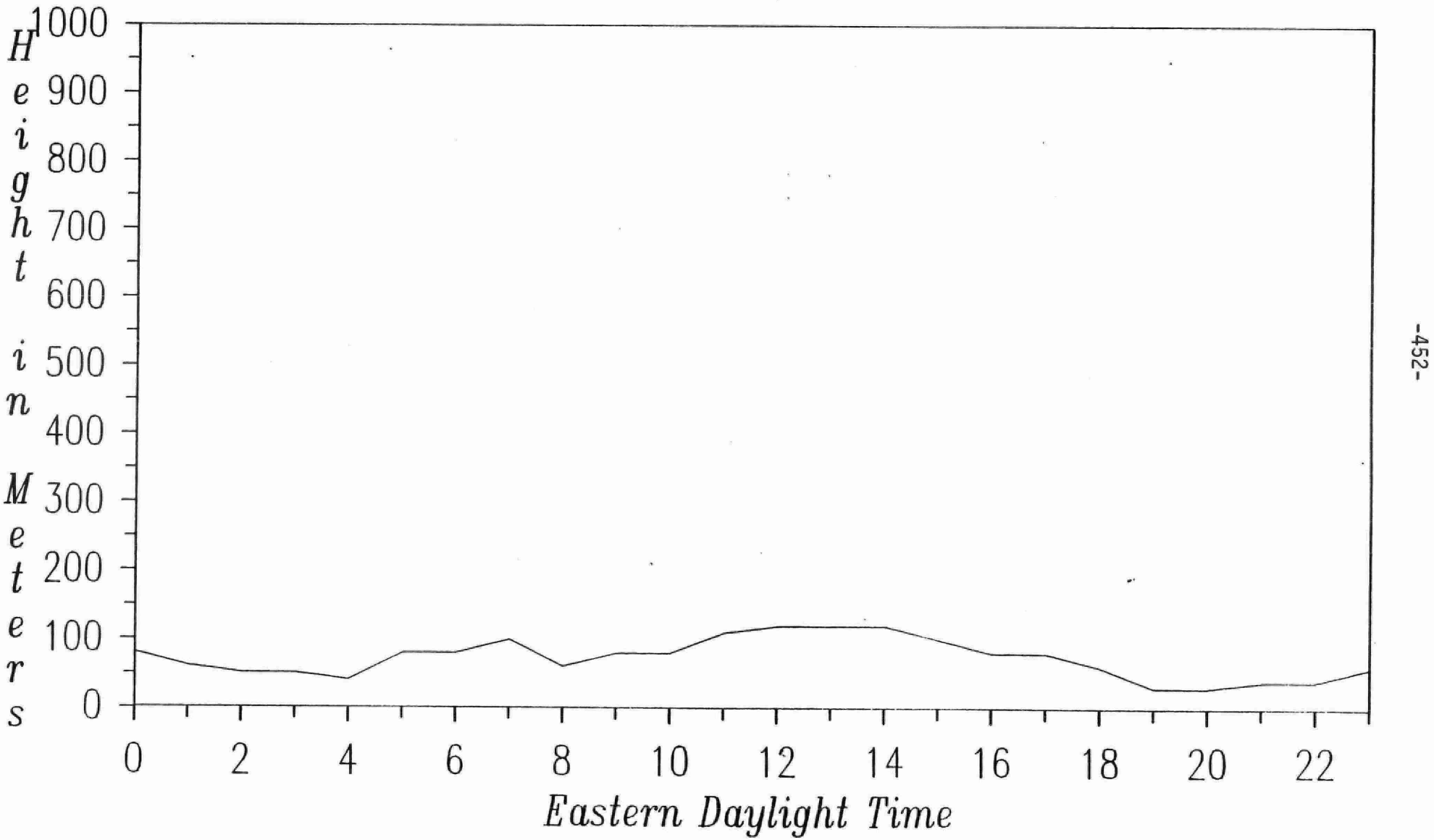
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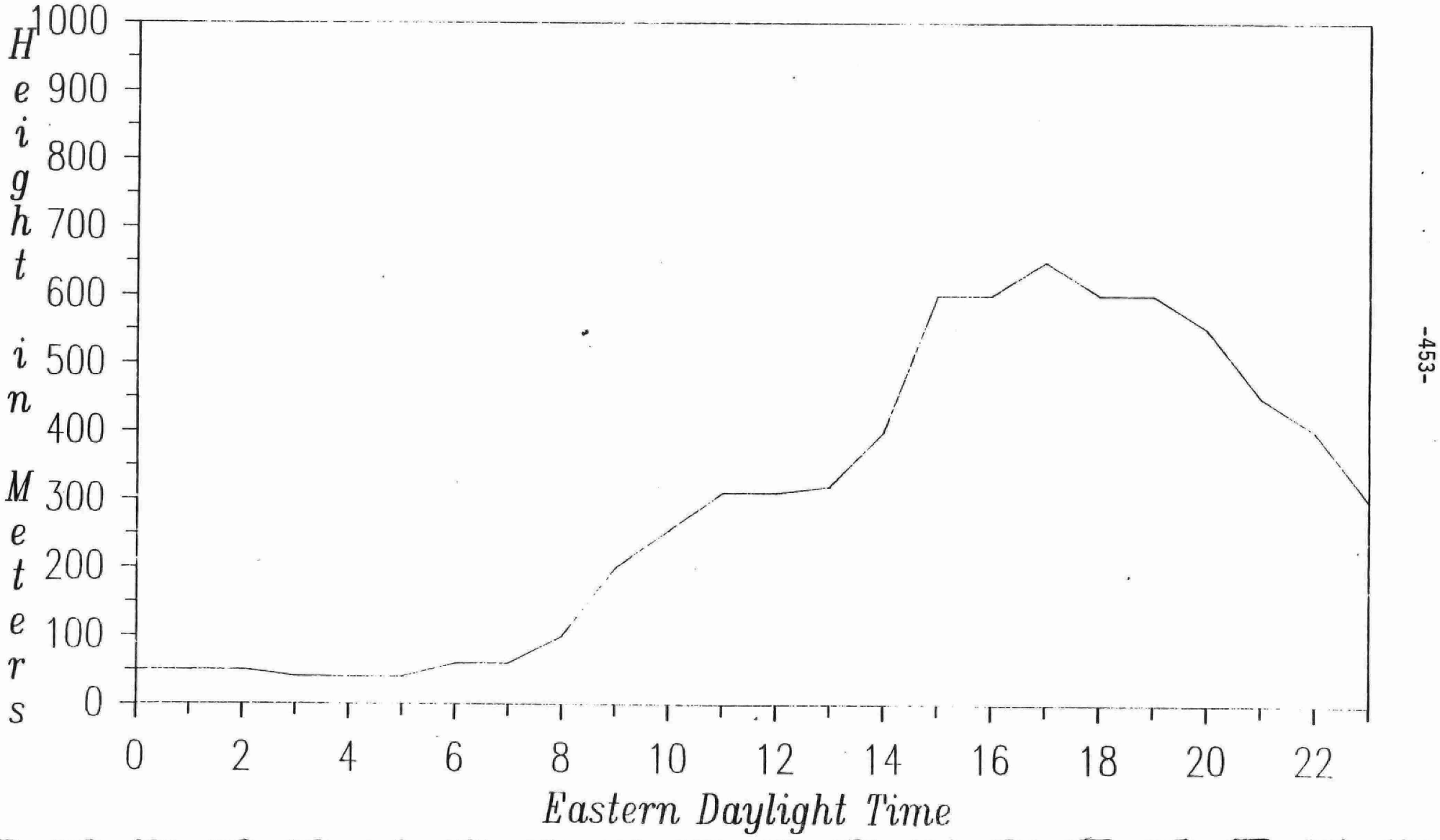
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COMMENTS:

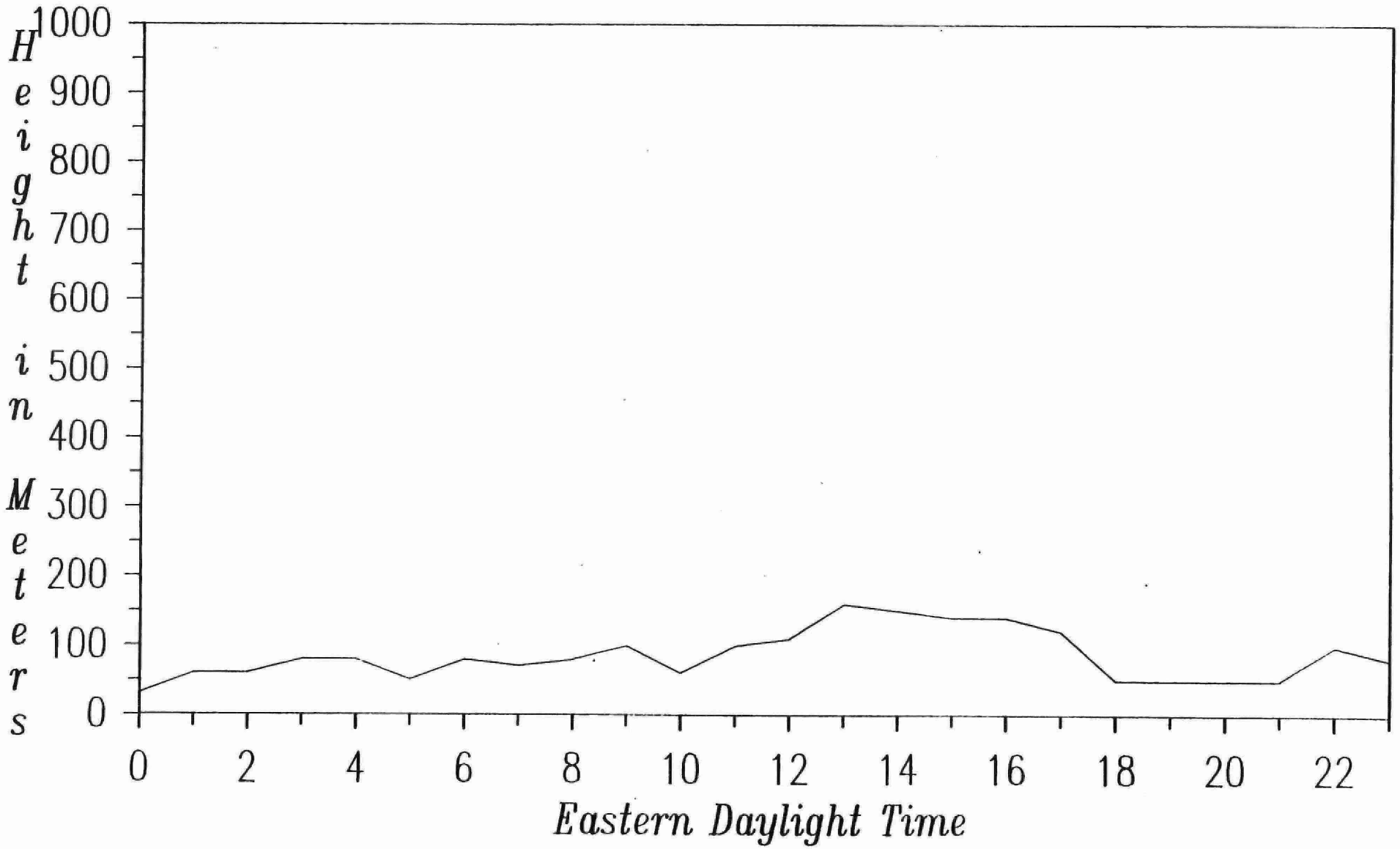
Petrolia Acoustic Sounder
Mixed Layer Height Data June 28



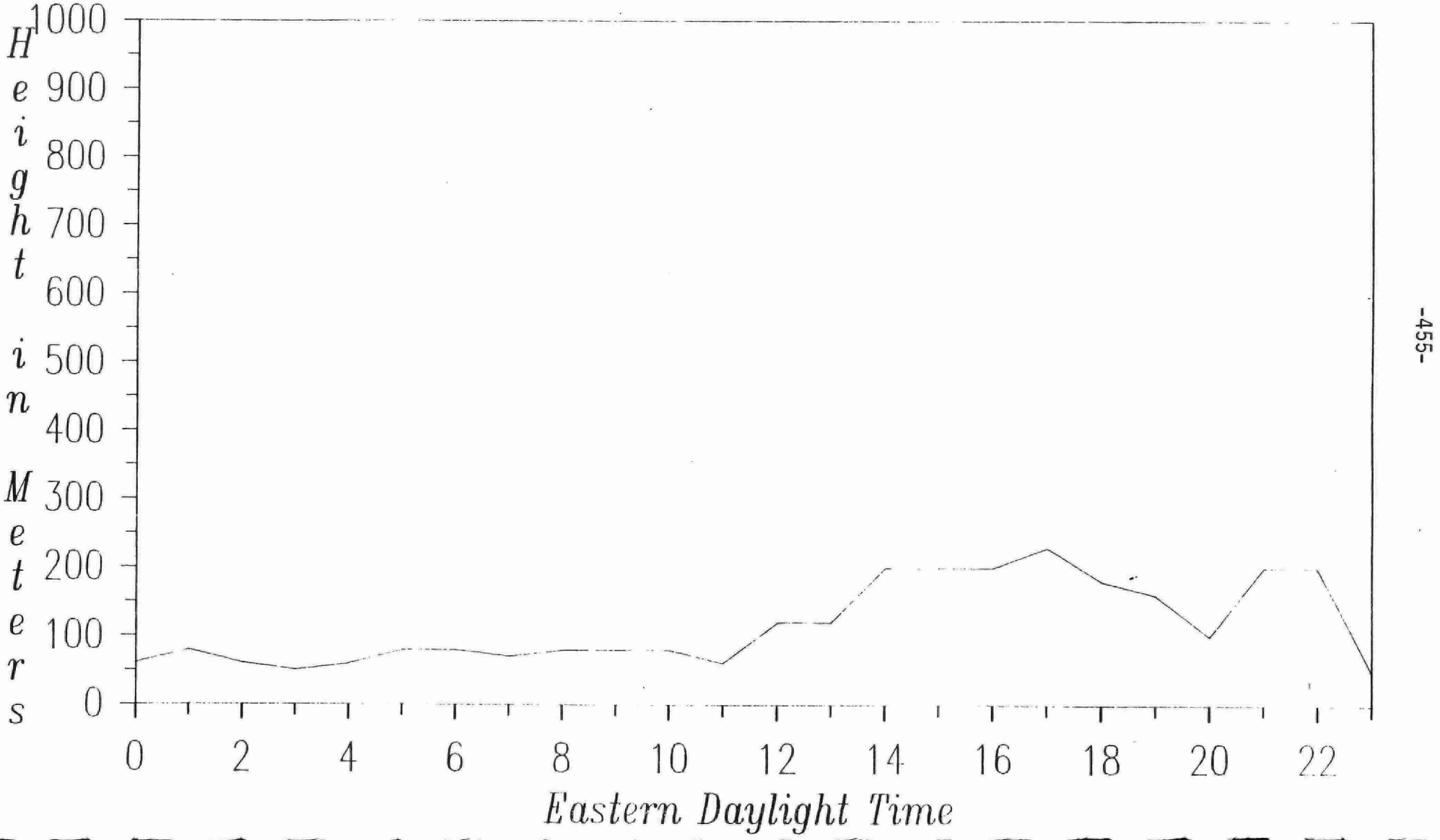
Petrolia Acoustic Sounder
Mixed Layer Height Data June 29



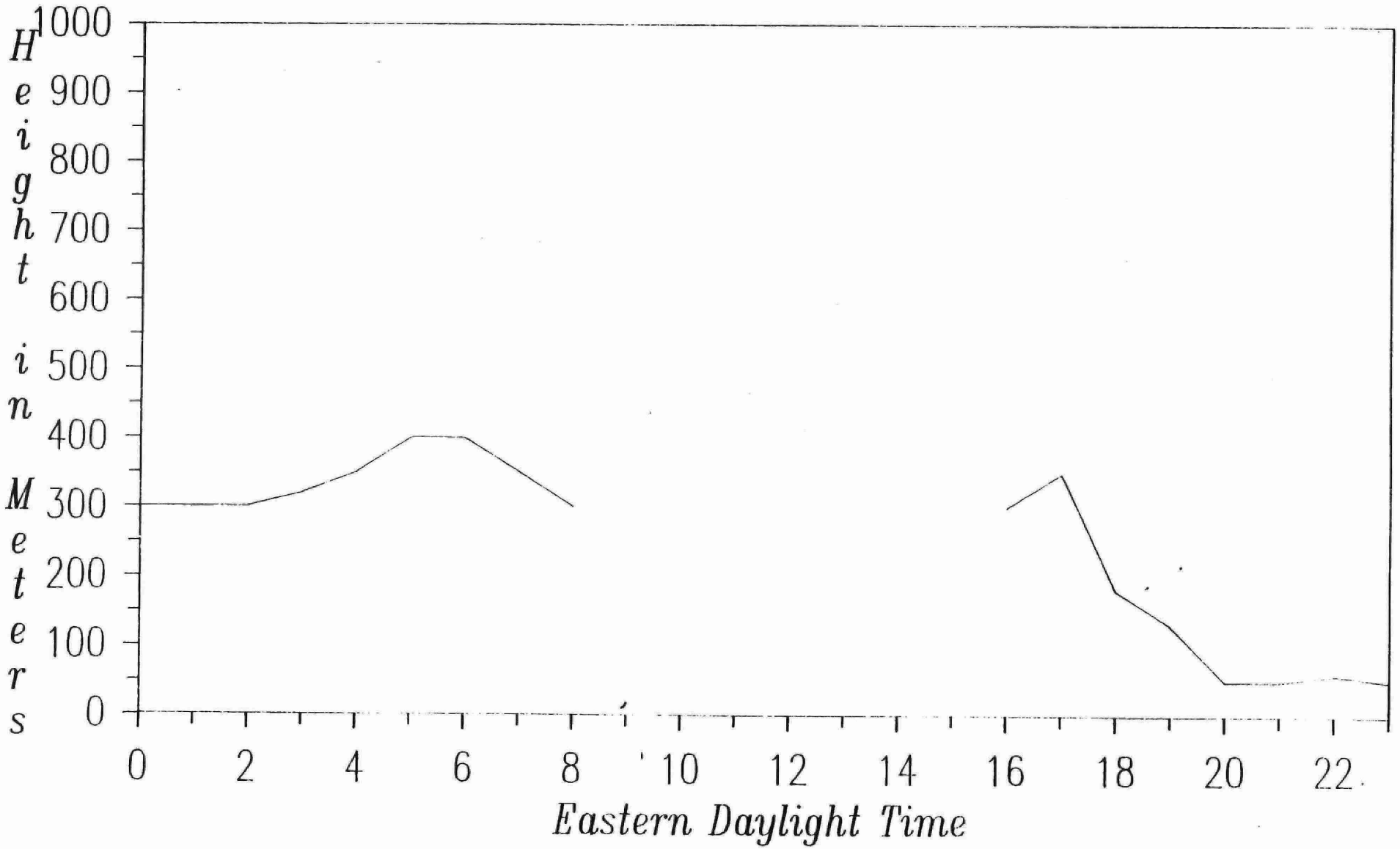
Petrolia Acoustic Sounder
Mixed Layer Height Data July 3



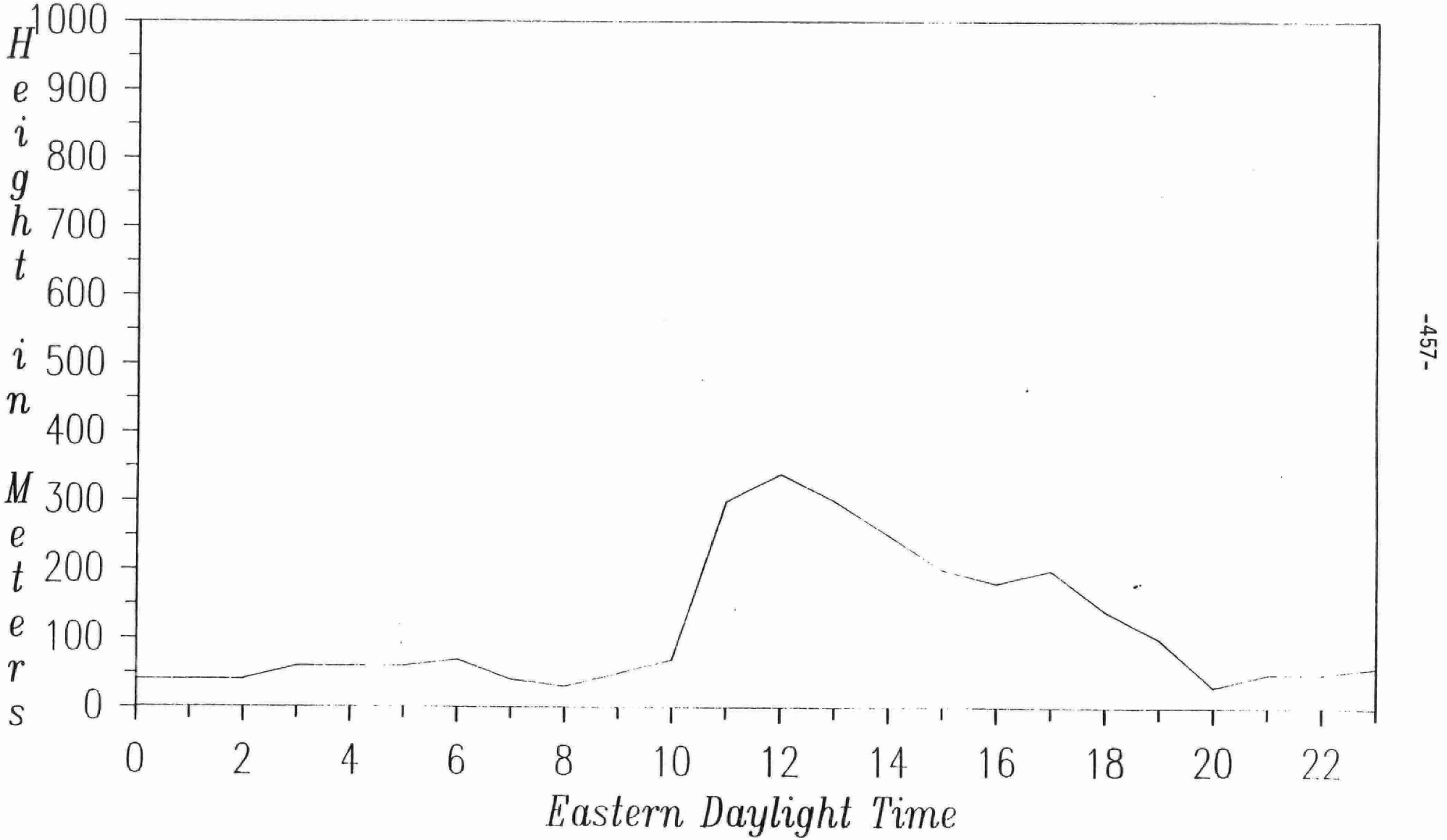
Petrolia Acoustic Sounder
Mixed Layer Height Data July 5



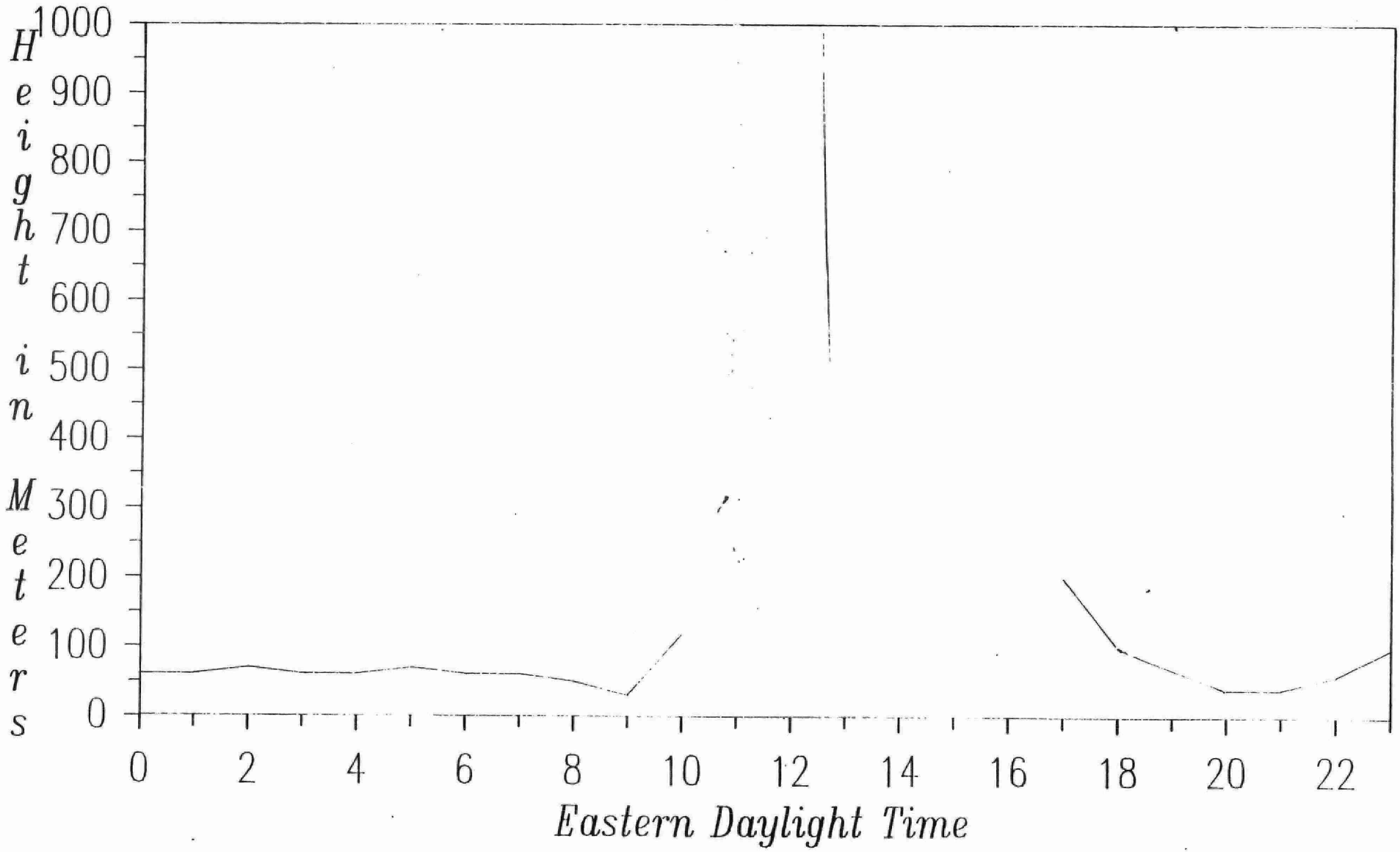
Petrolia Acoustic Sounder
Mixed Layer Height Data July 7



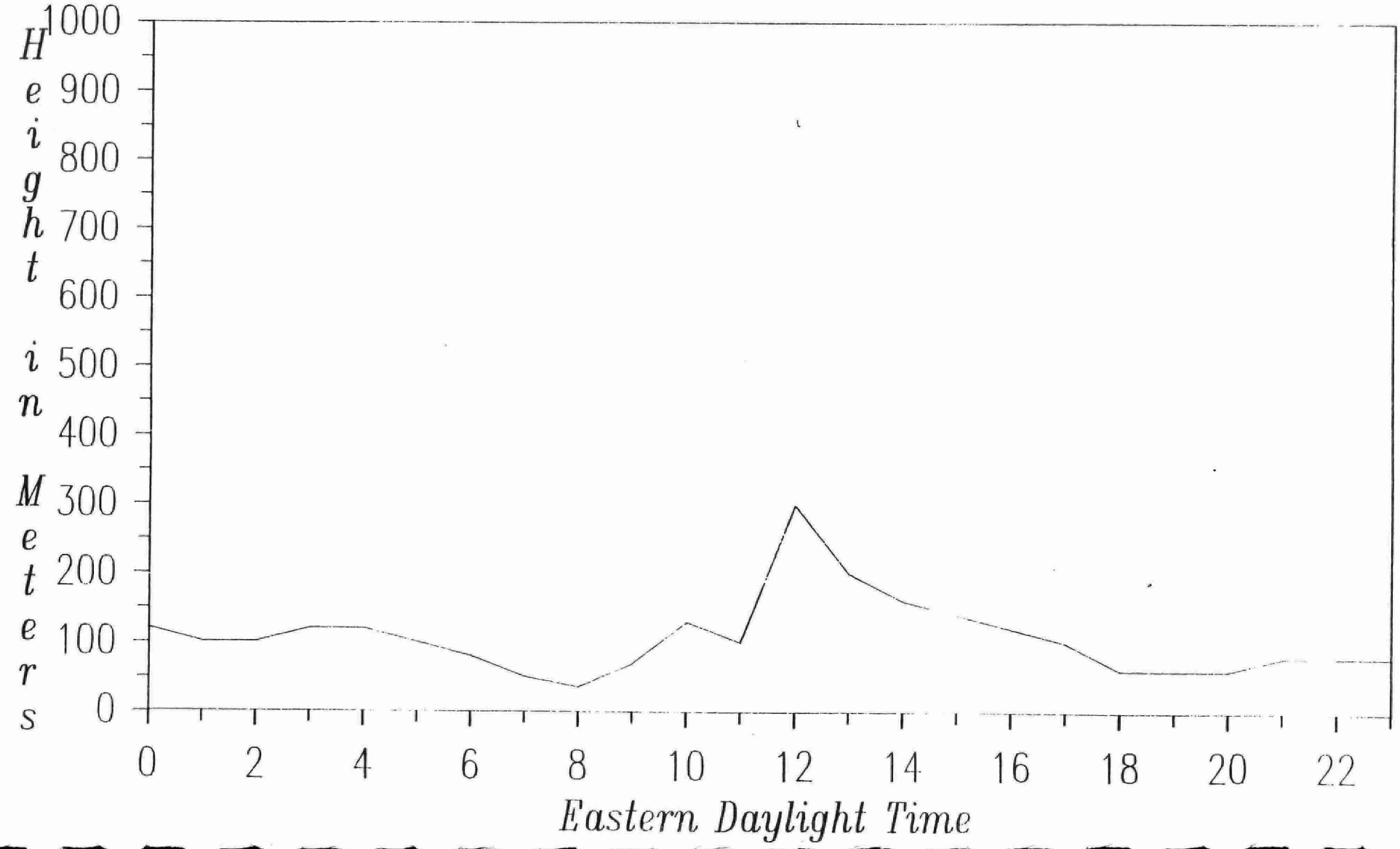
Petrolia Acoustic Sounder
Mixed Layer Height Data July 8



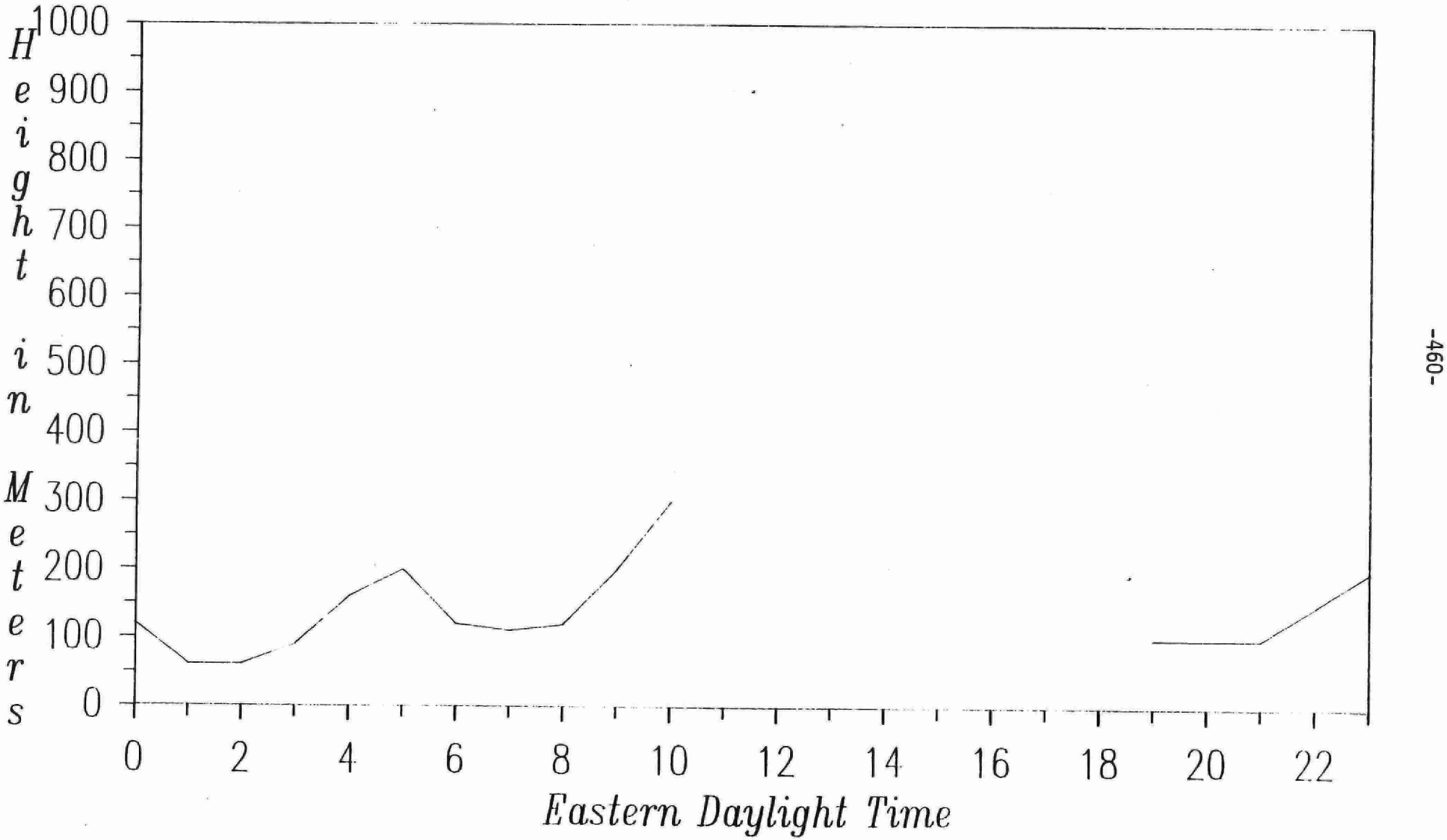
Petrolia Acoustic Sounder
Mixed Layer Height Data July 13



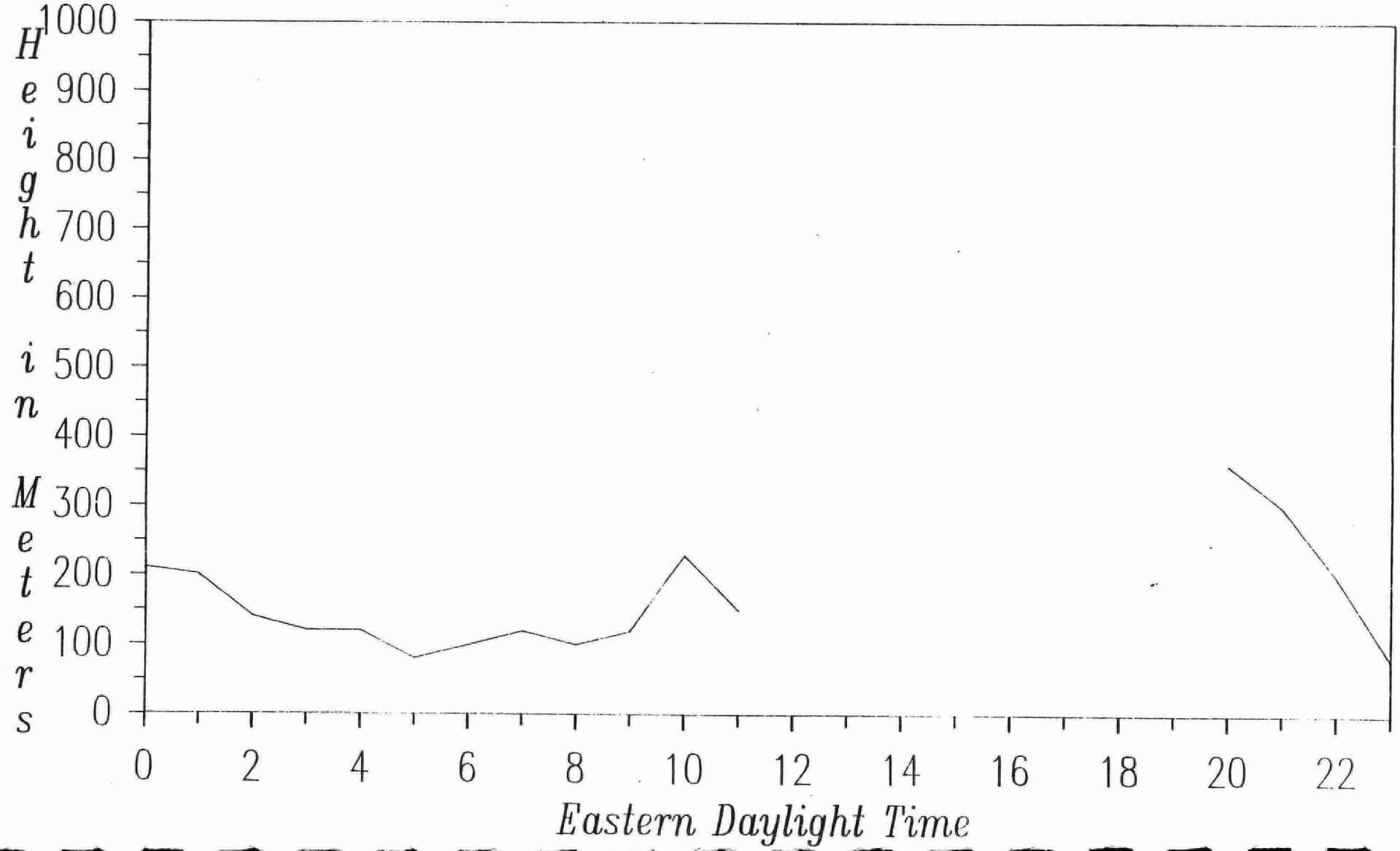
Petrolia Acoustic Sounder
Mixed Layer Height Data July 14



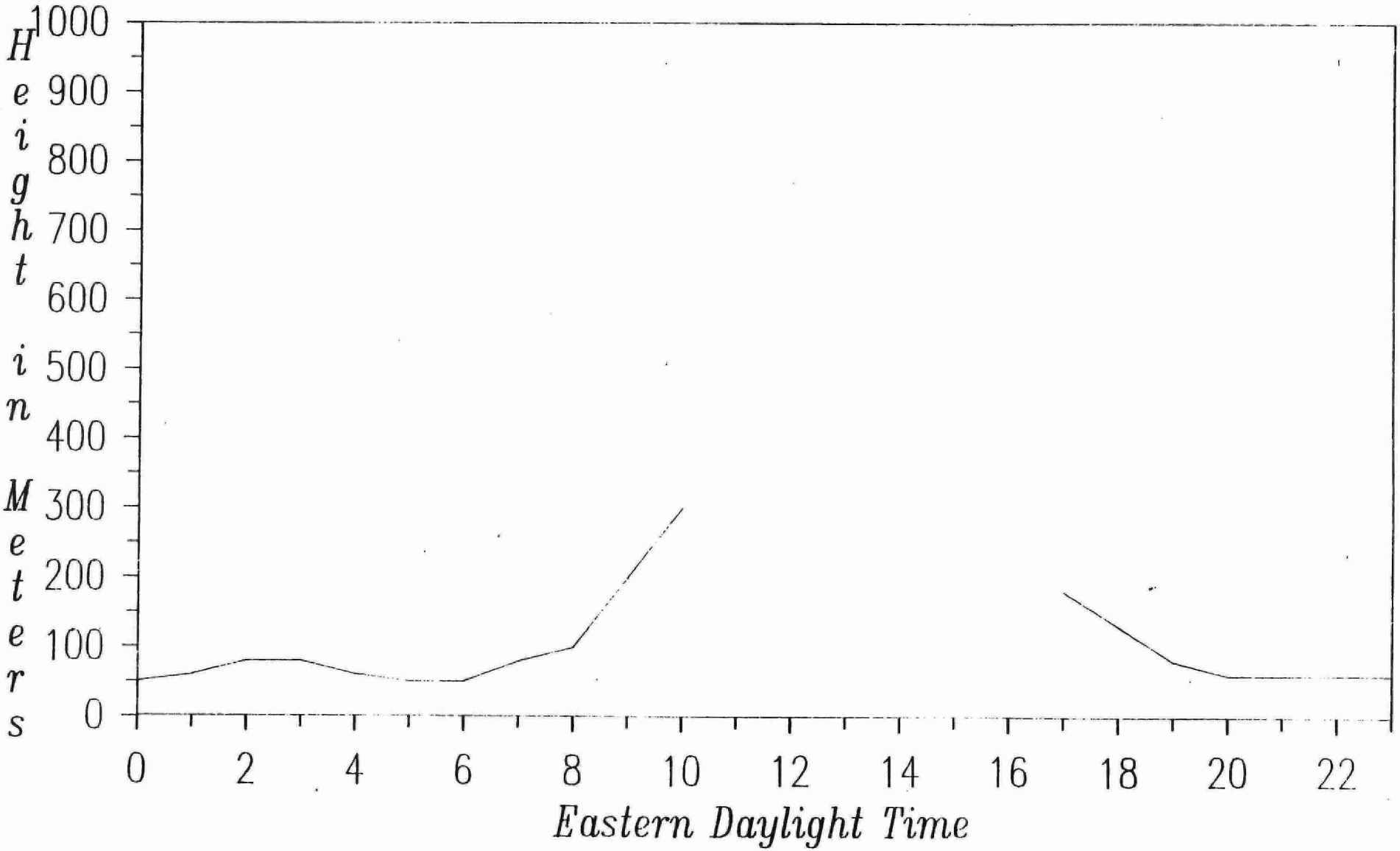
Petrolia Acoustic Sounder
Mixed Layer Height Data July 16



Petrolia Acoustic Sounder
Mixed Layer Height Data July 17



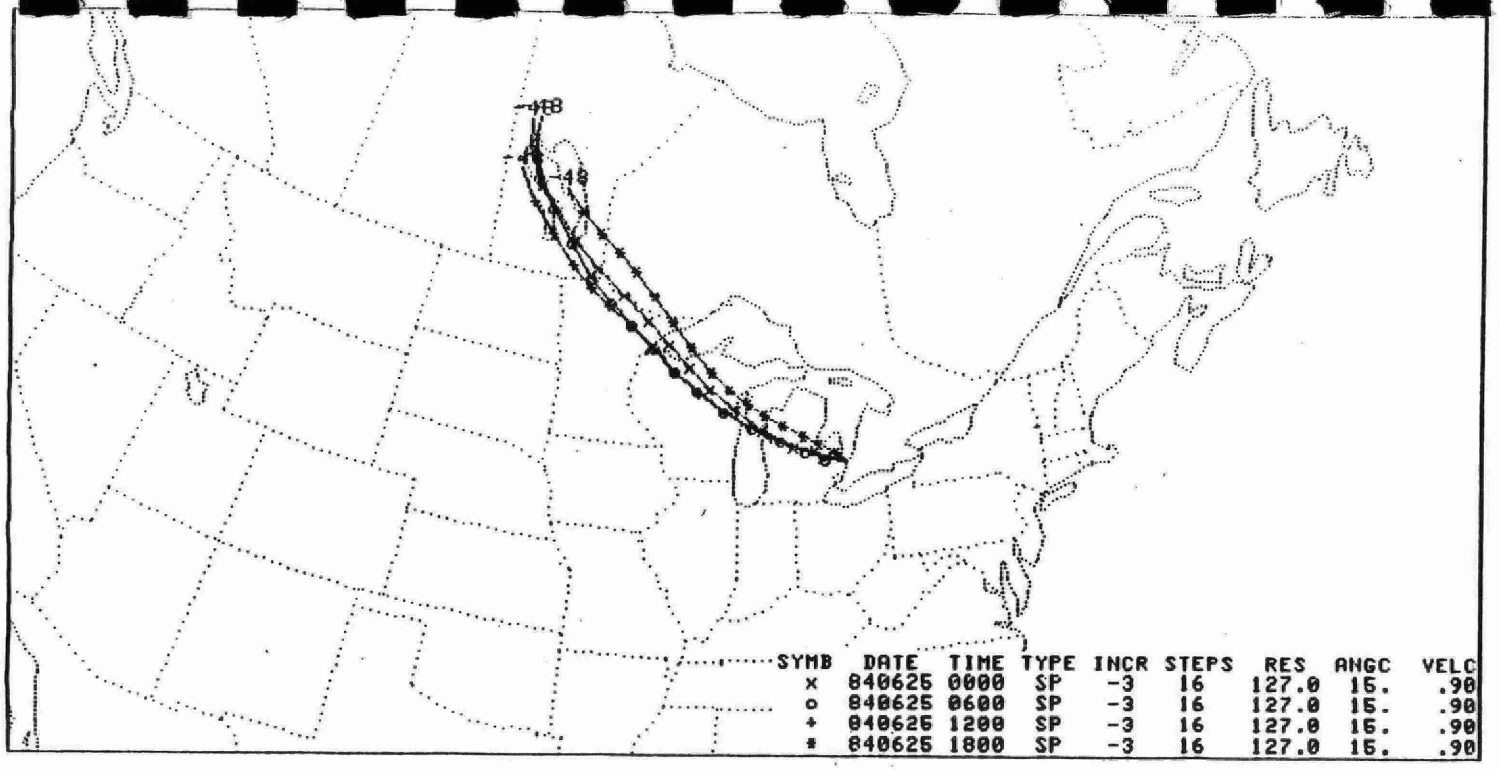
Petrolia Acoustic Sounder
Mixed Layer Height Data July 18

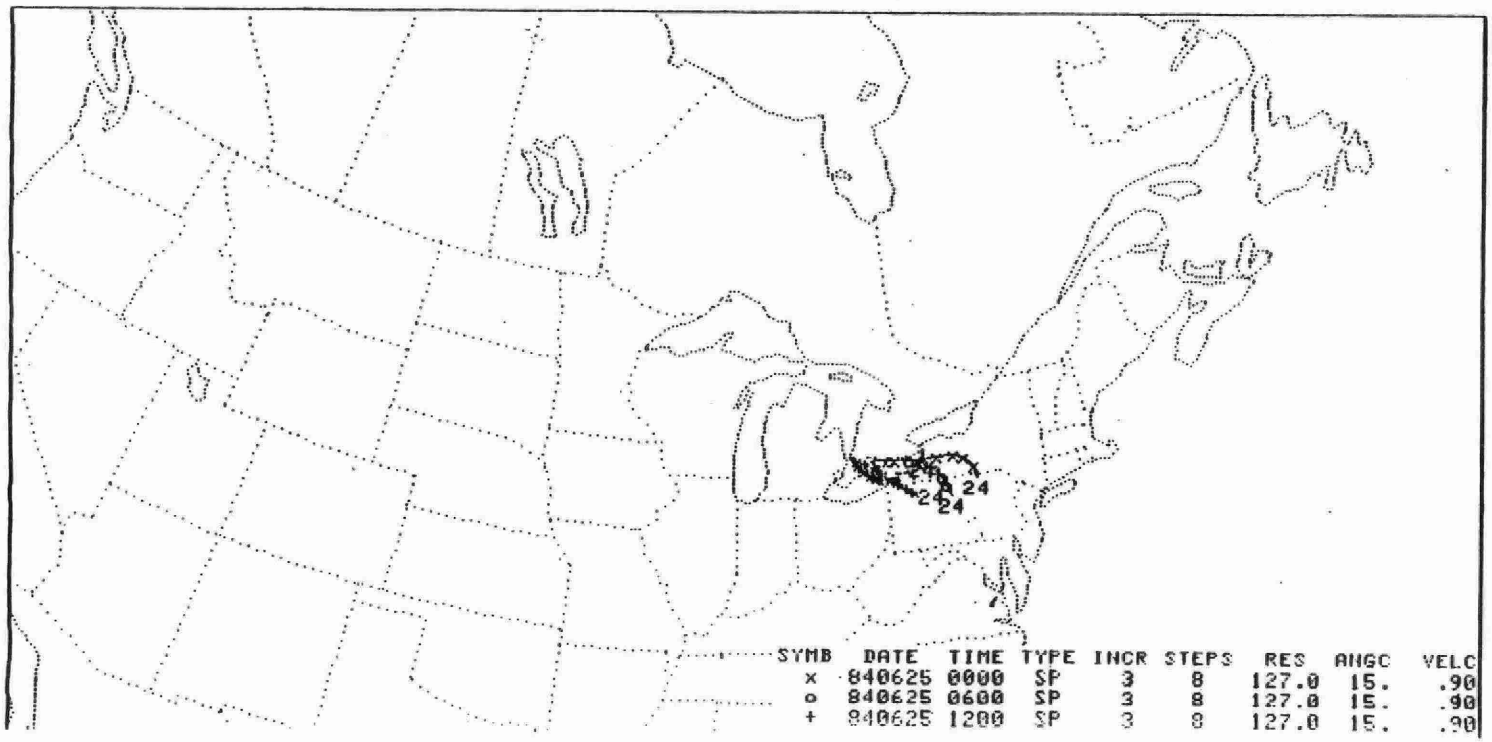


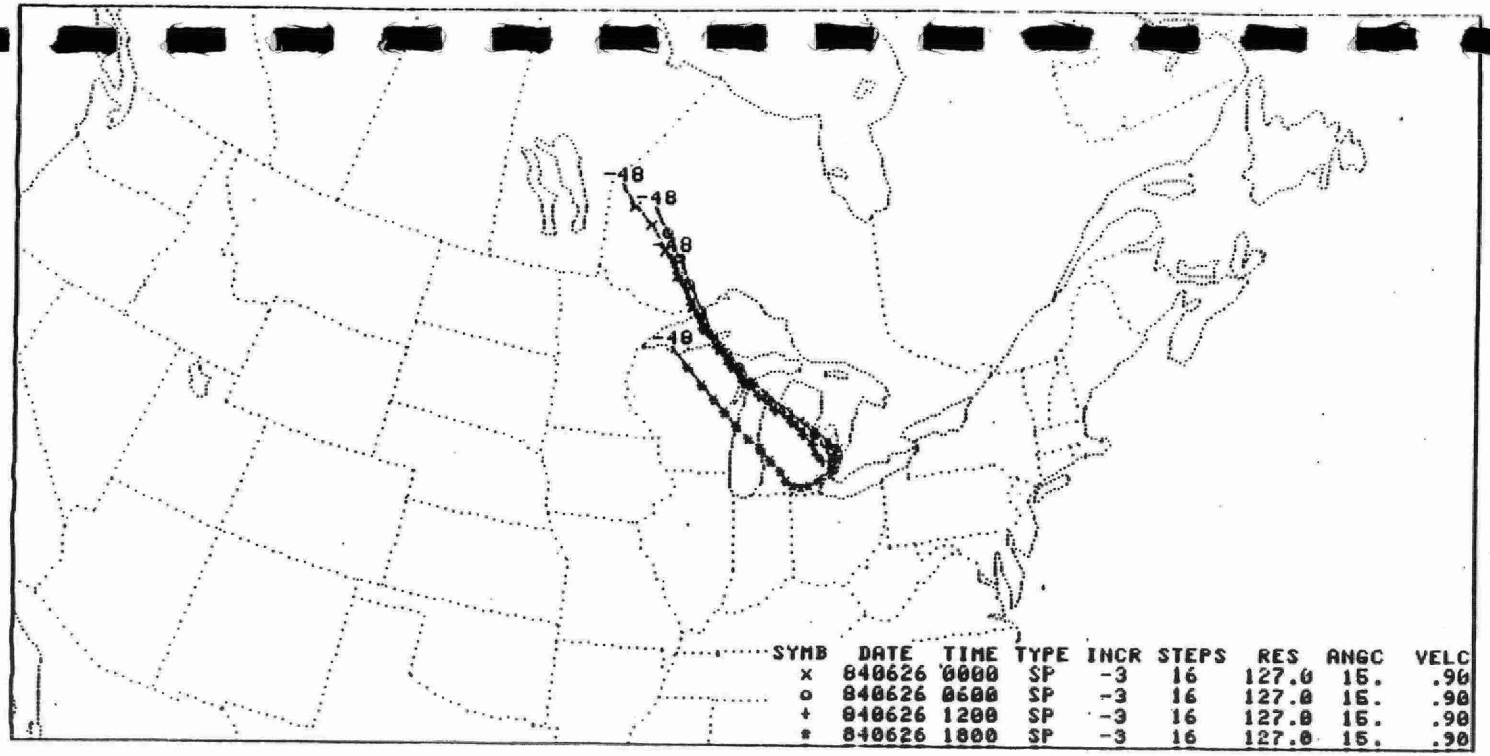
9. AIR PARCEL TRAJECTORIES

(ALL TIMES ARE EXPRESSED IN GREENWICH MEAN TIME (G.M.T.))

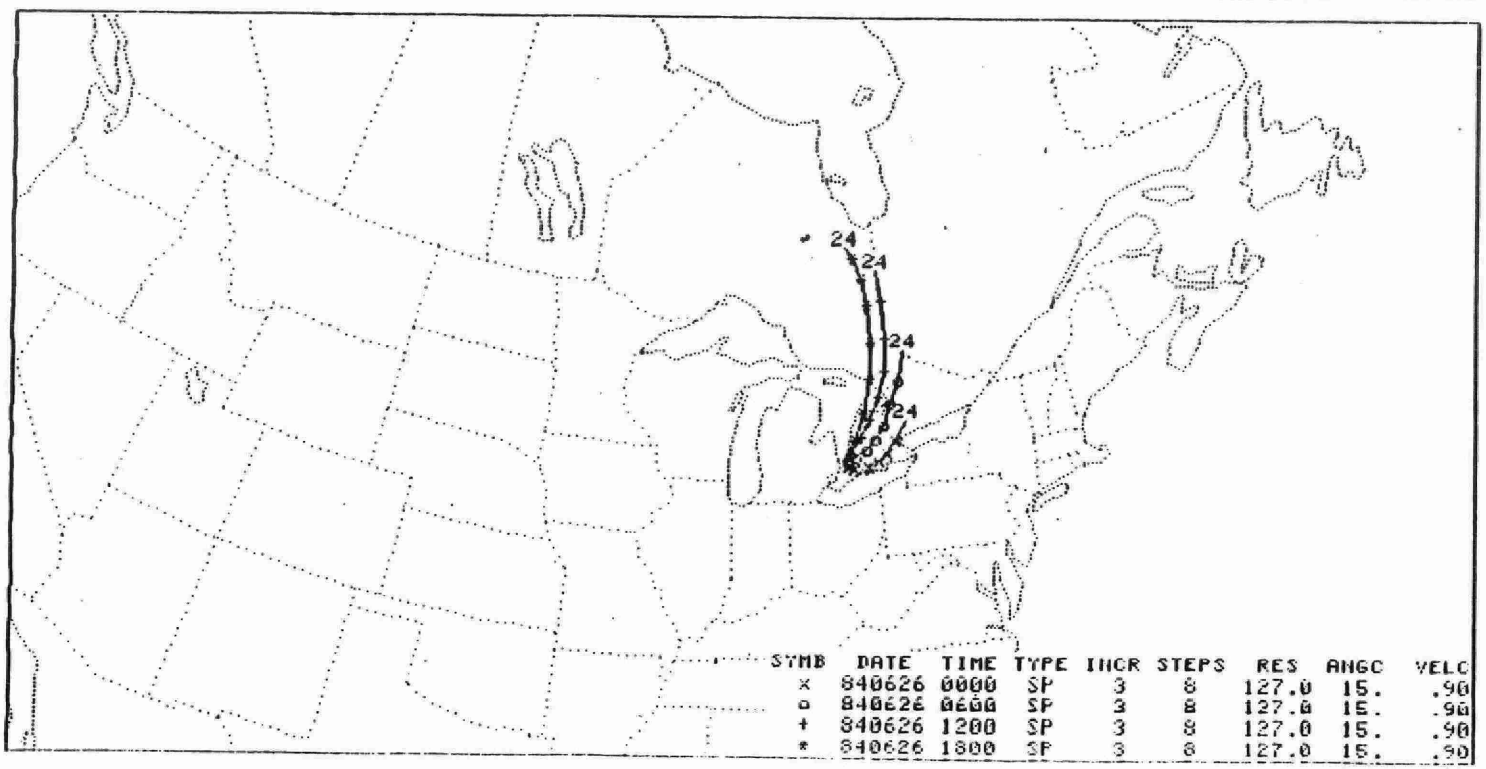
9.A FORWARD AND BACKWARD TRAJECTORY OF AIR PARCELS OVER THE SARNIA AREA FOR THE PERIOD JUNE AND JULY 1984 (SURFACE)


-48
-48
SYMB DATE TIME TYPE INCR STEPS RES ANGC VELC
x 840625 0000 SP -3 16 127.0 15. .90
o 840625 0600 SP -3 16 127.0 15. .90
+ 840625 1200 SP -3 16 127.0 15. .90
* 840625 1800 SP -3 16 127.0 15. .90

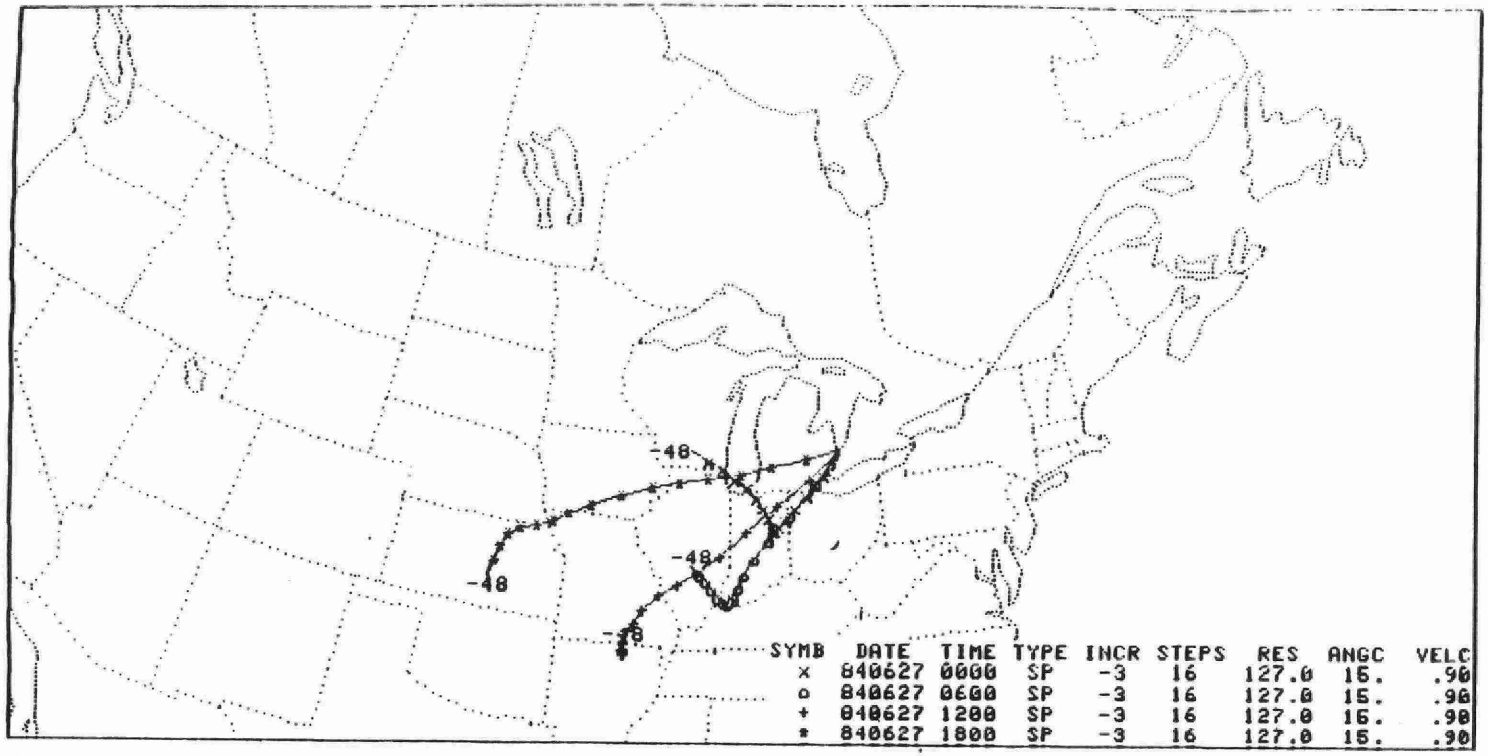

24
24
SYMB DATE TIME TYPE INCR STEPS RES ANGC VELC
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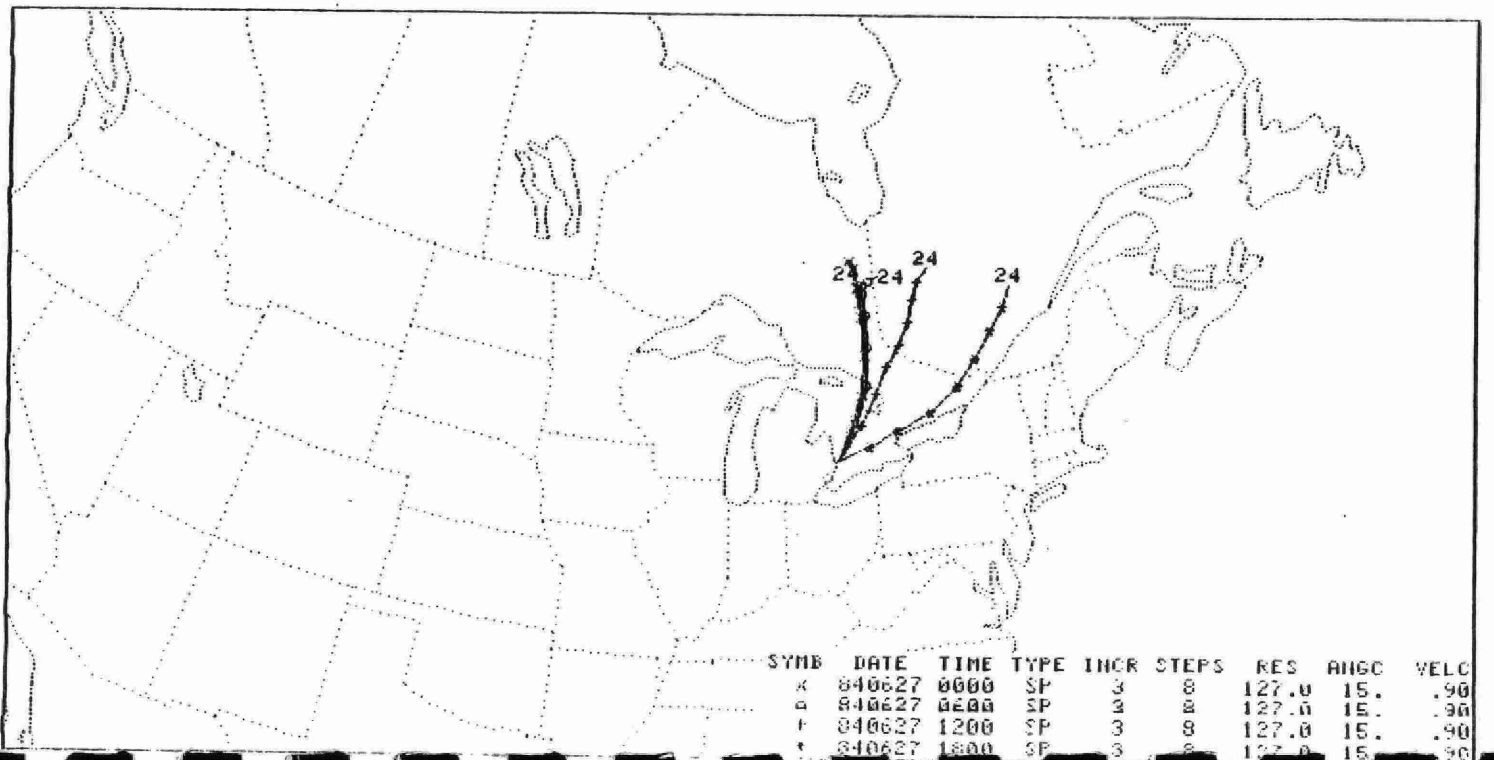
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+	840626	1200	SP	-3	16	127.0	15.	.90
*	840626	1800	SP	-3	16	127.0	15.	.90



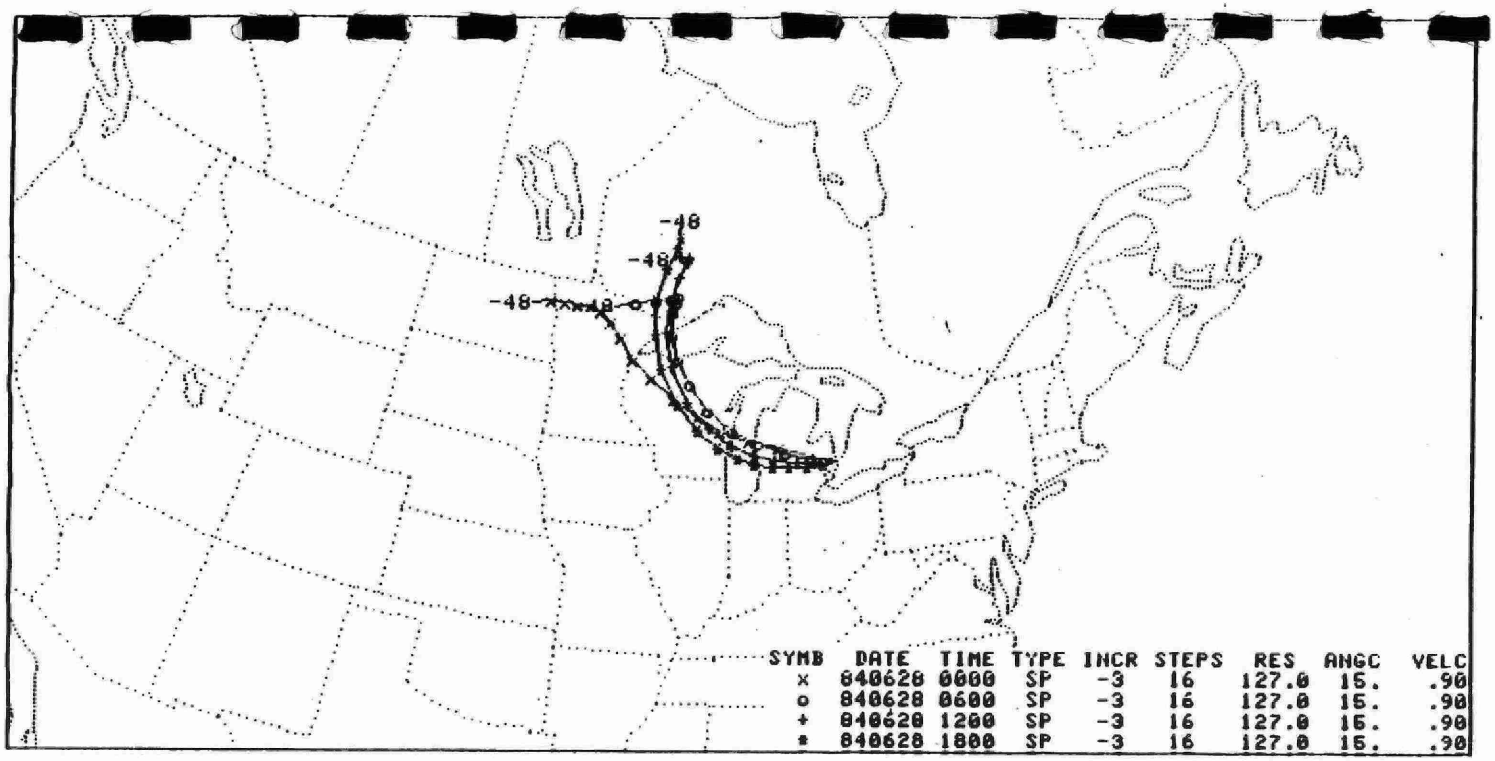
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*	840626	1800	SP	3	8	127.0	15.	.90



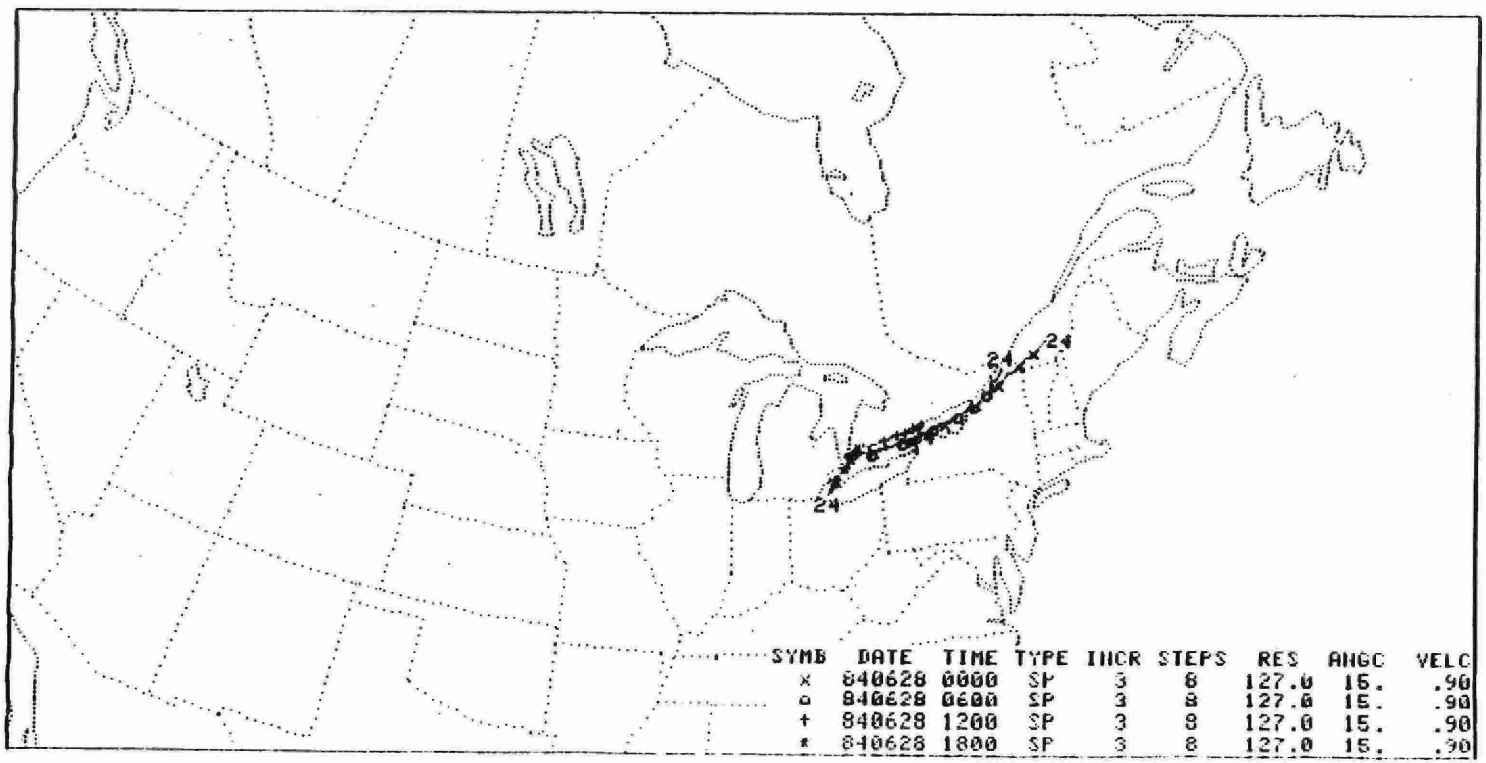
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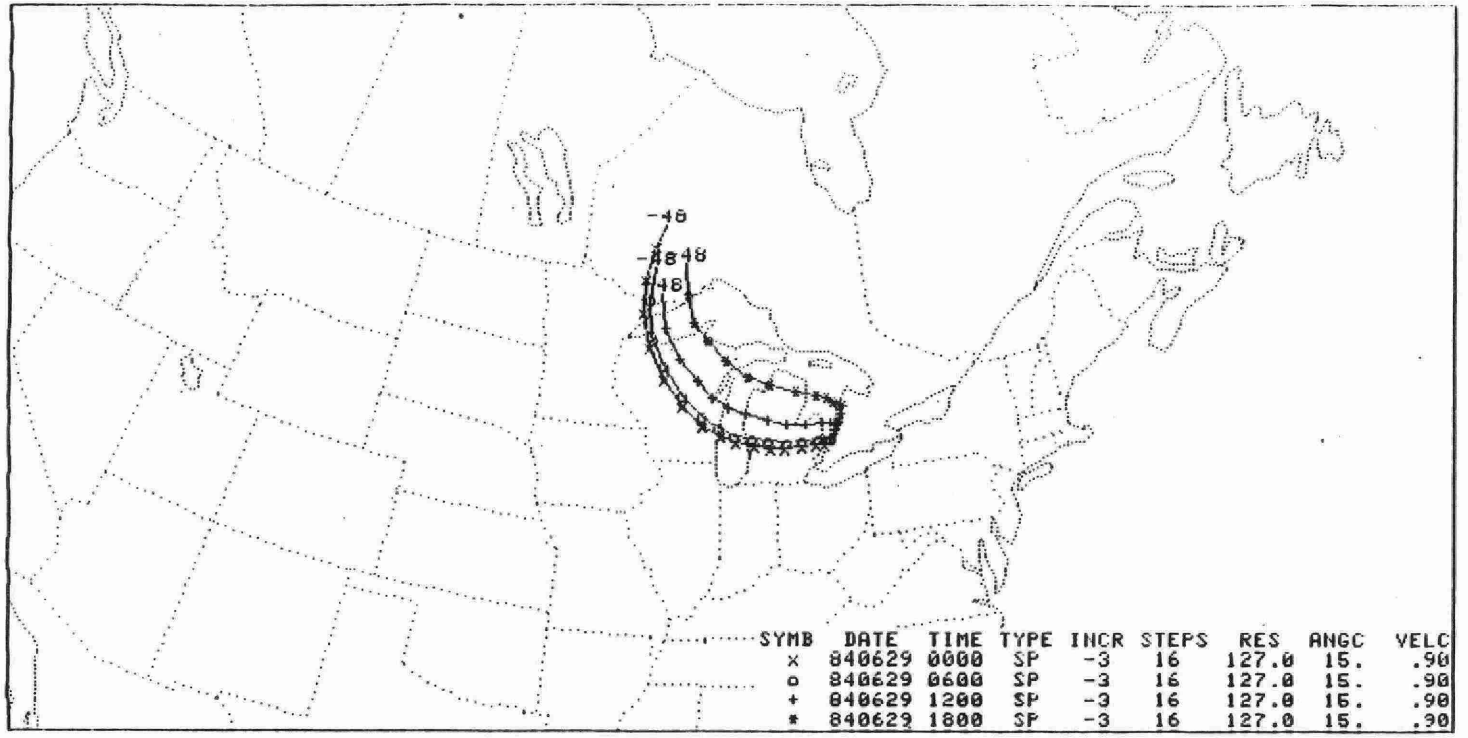
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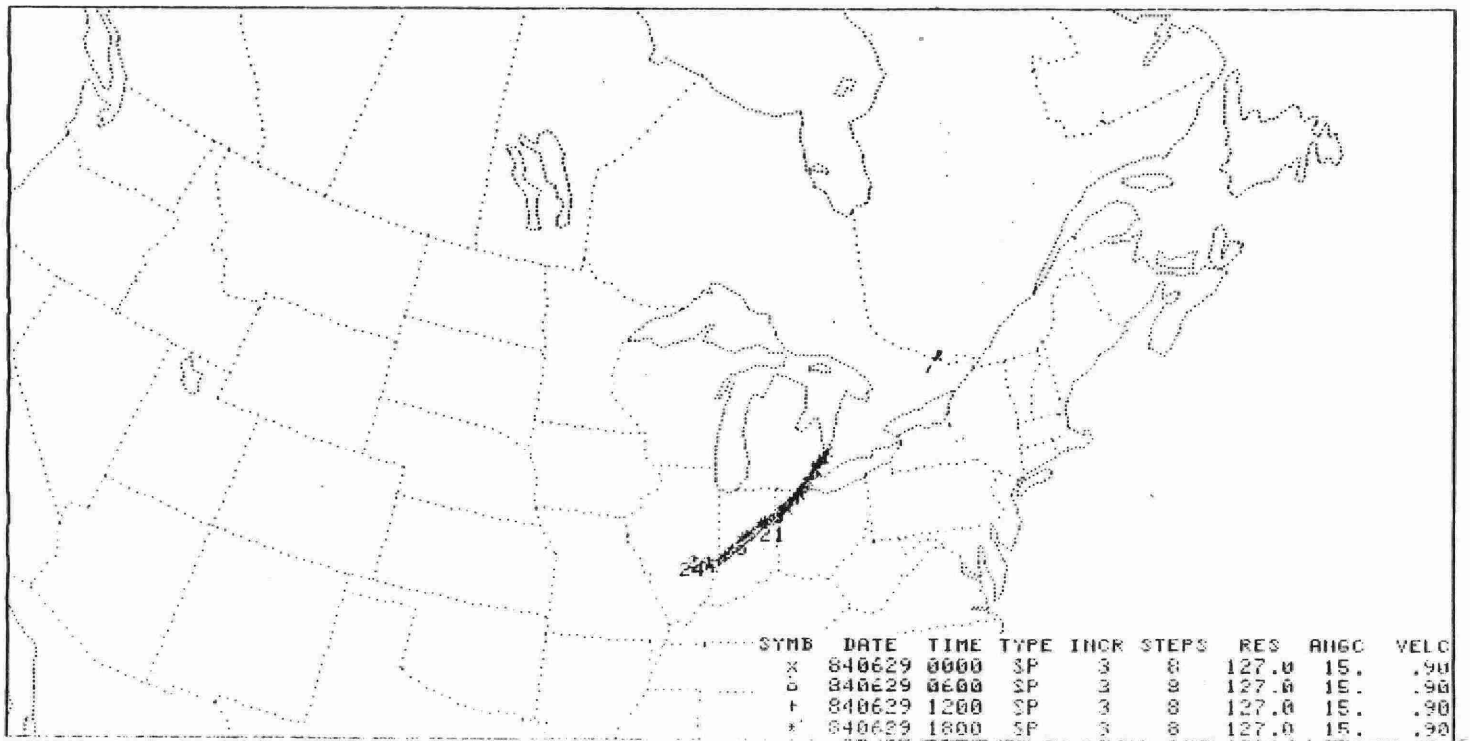
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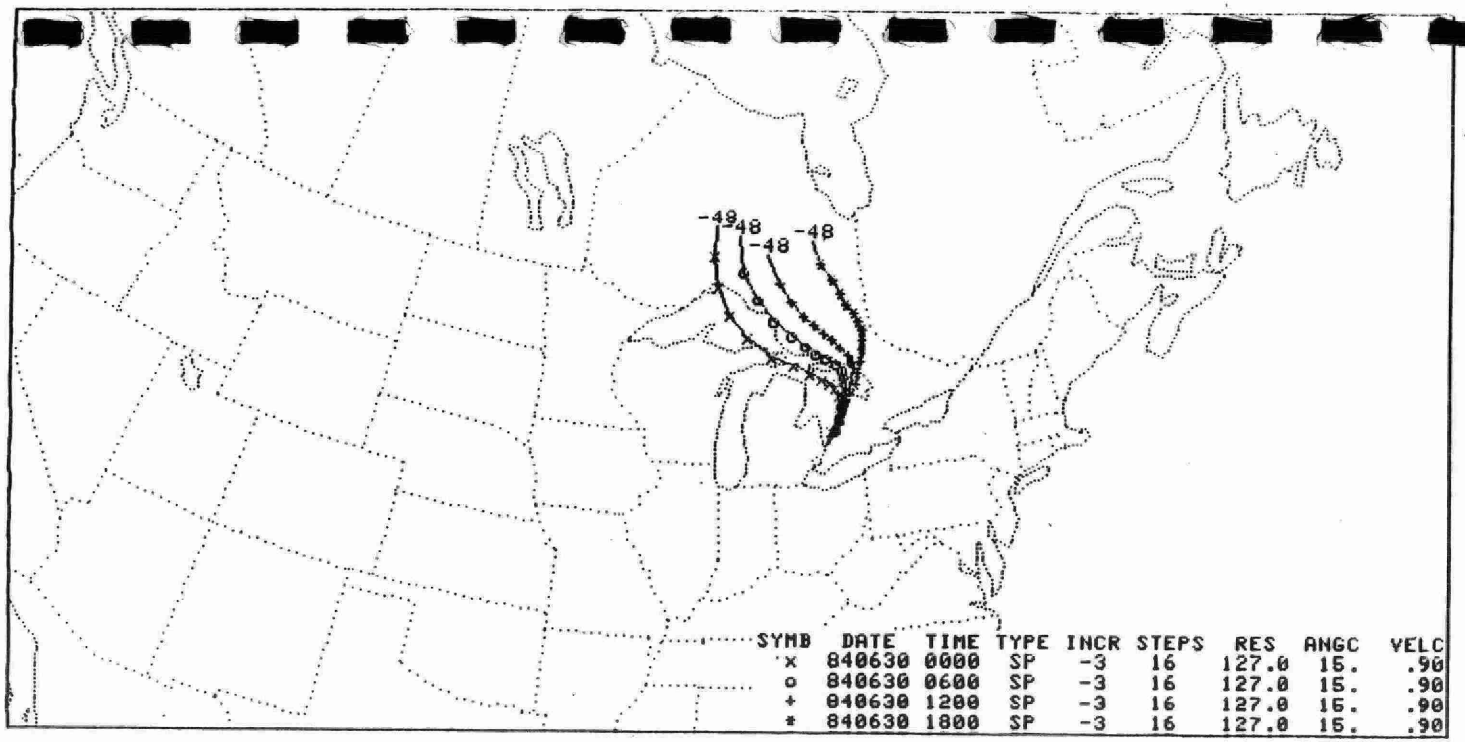
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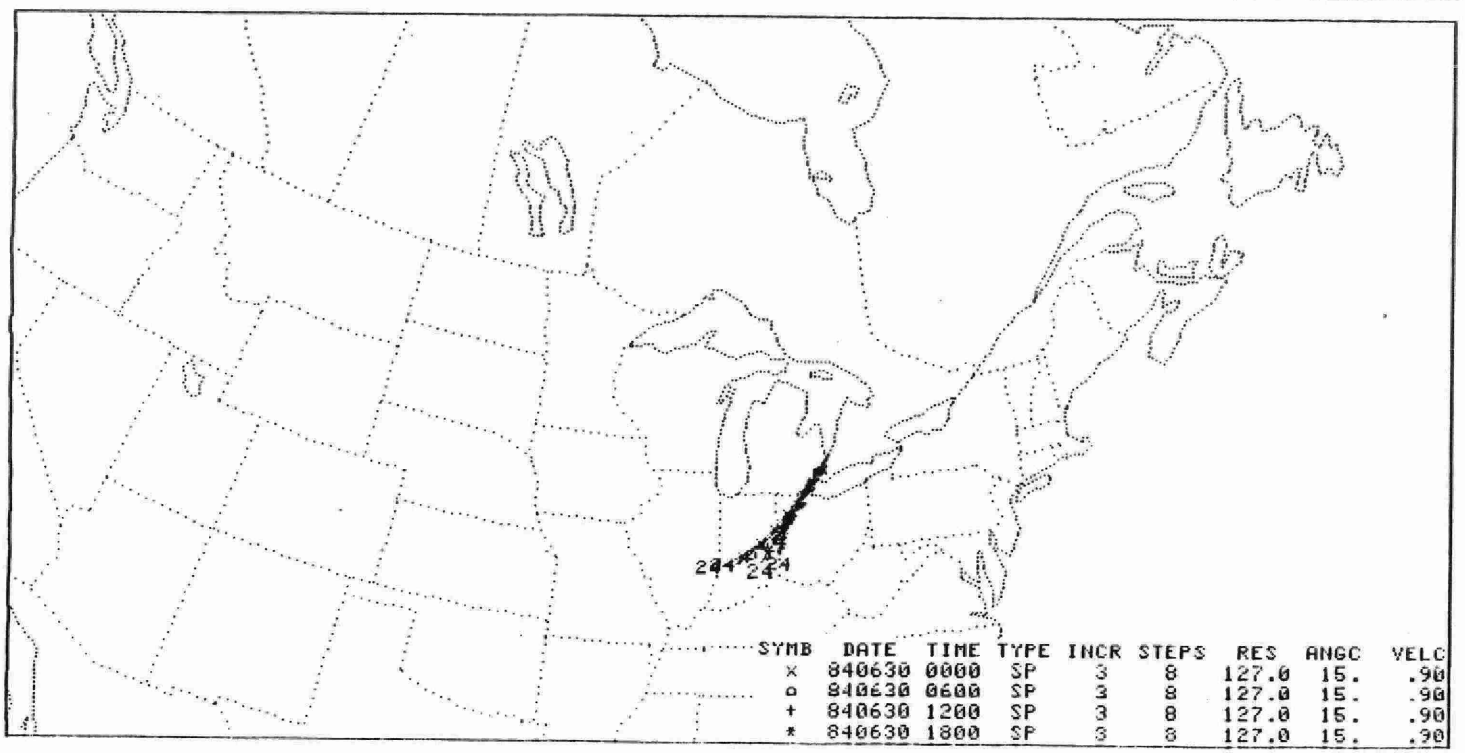
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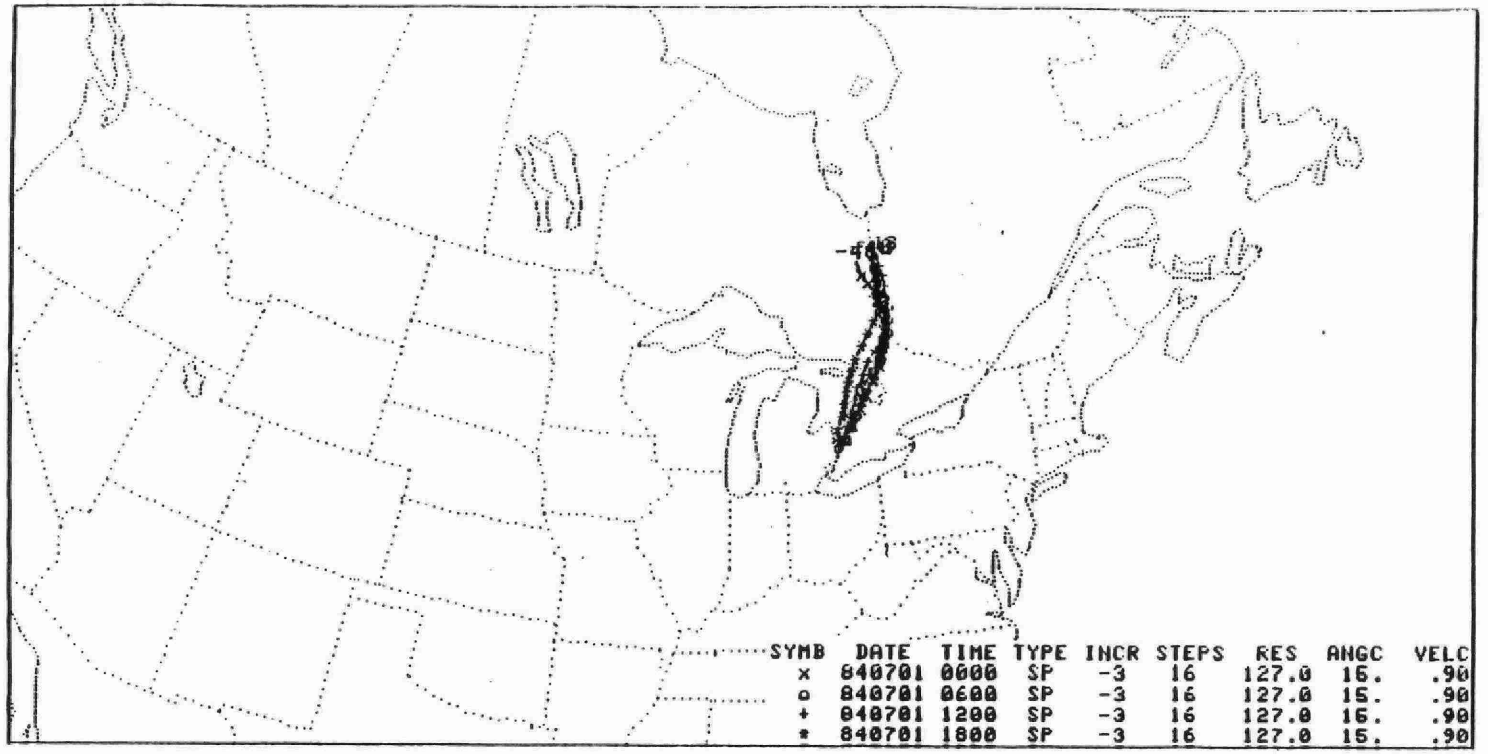
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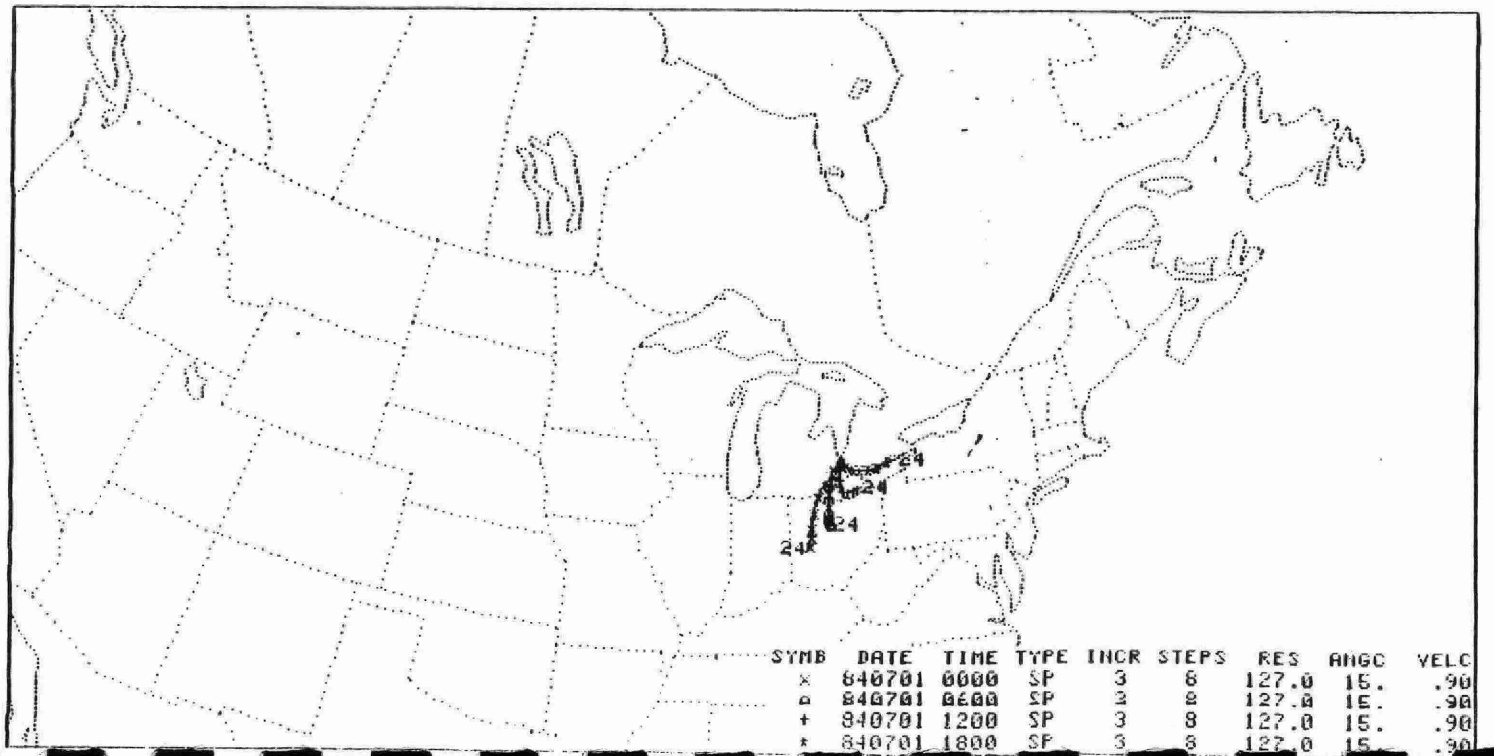
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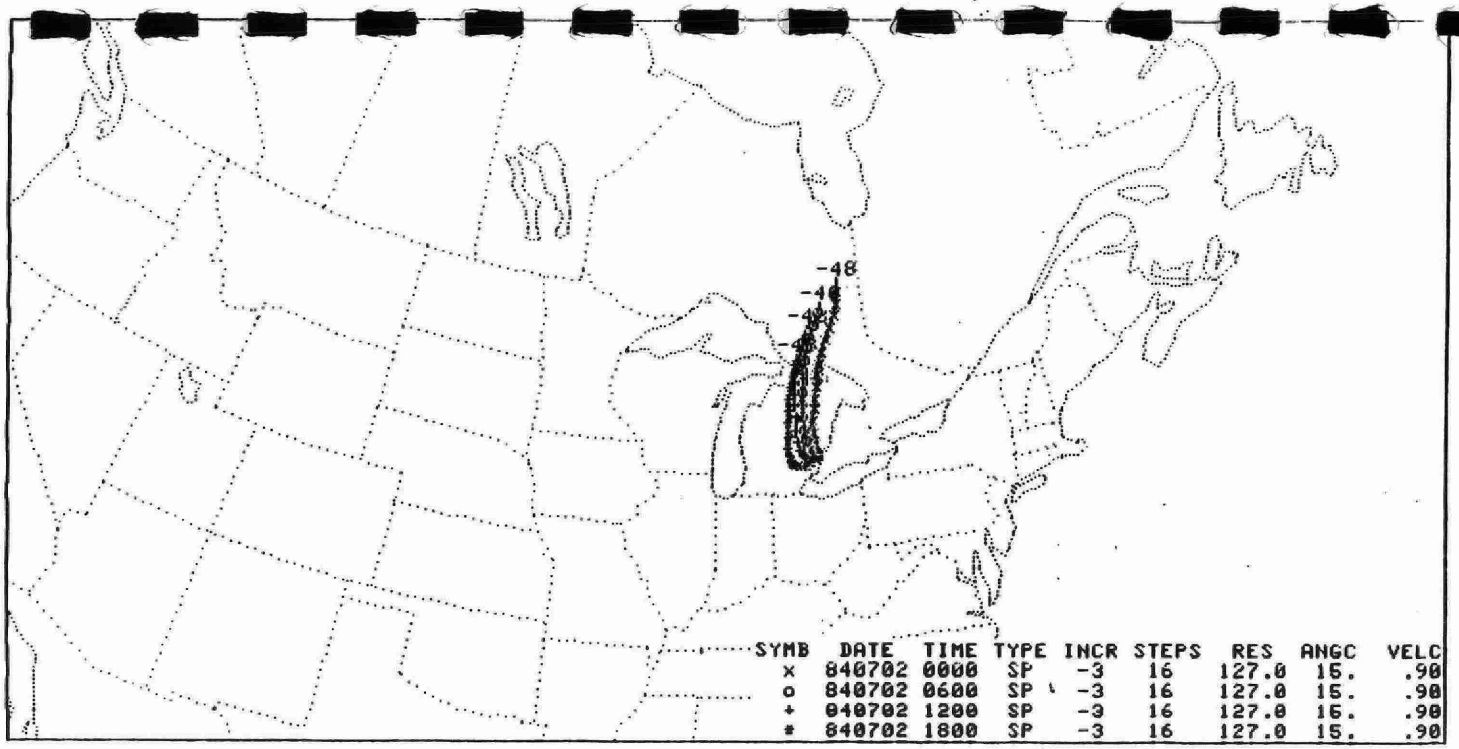
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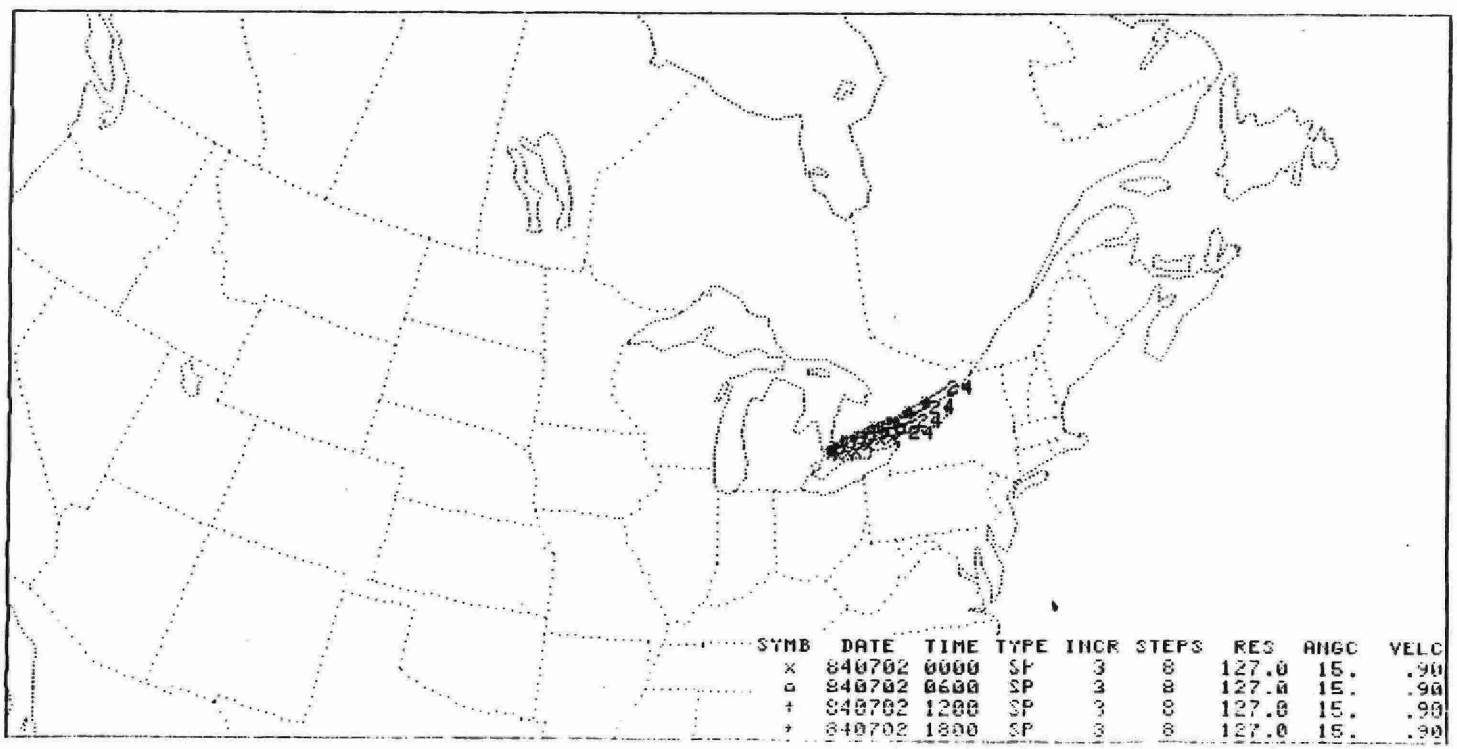
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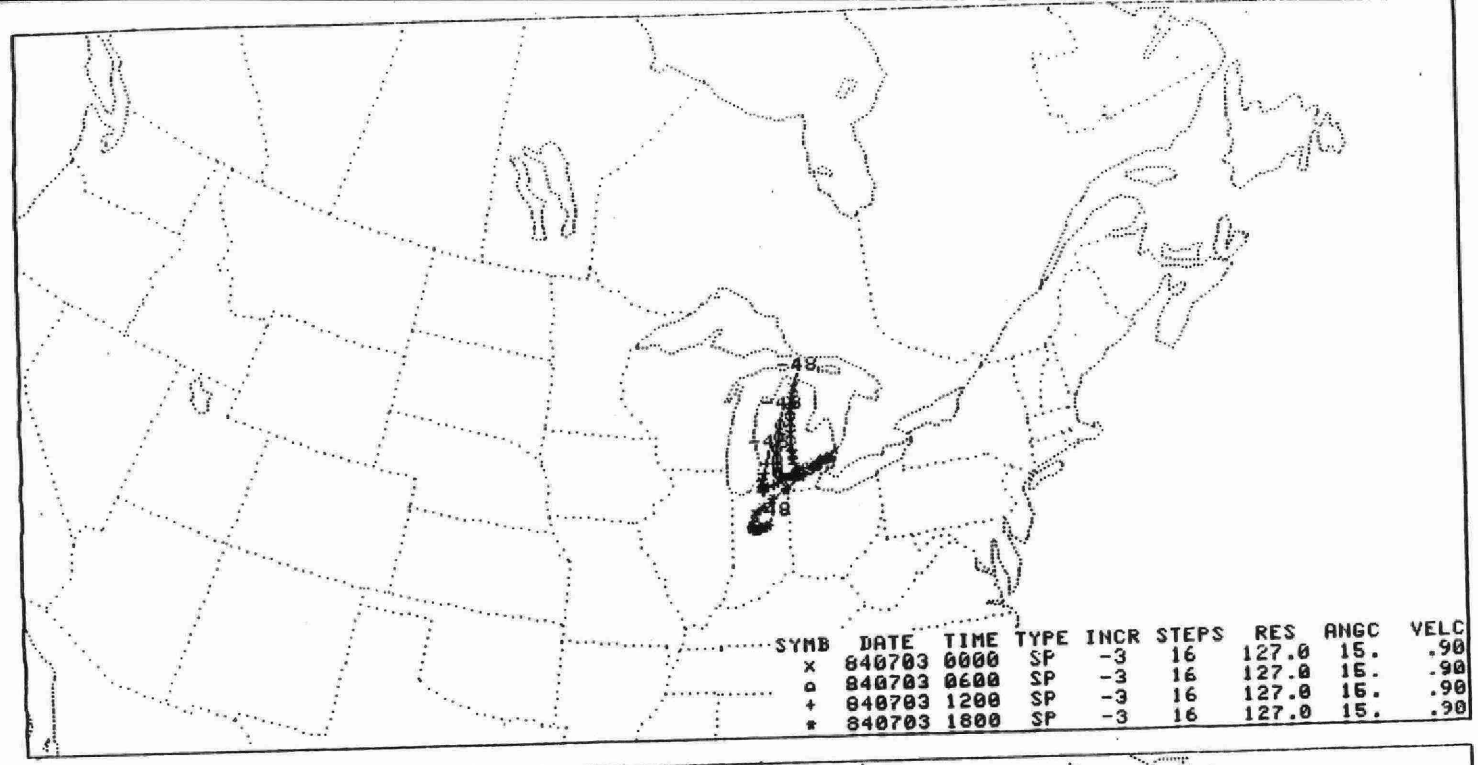
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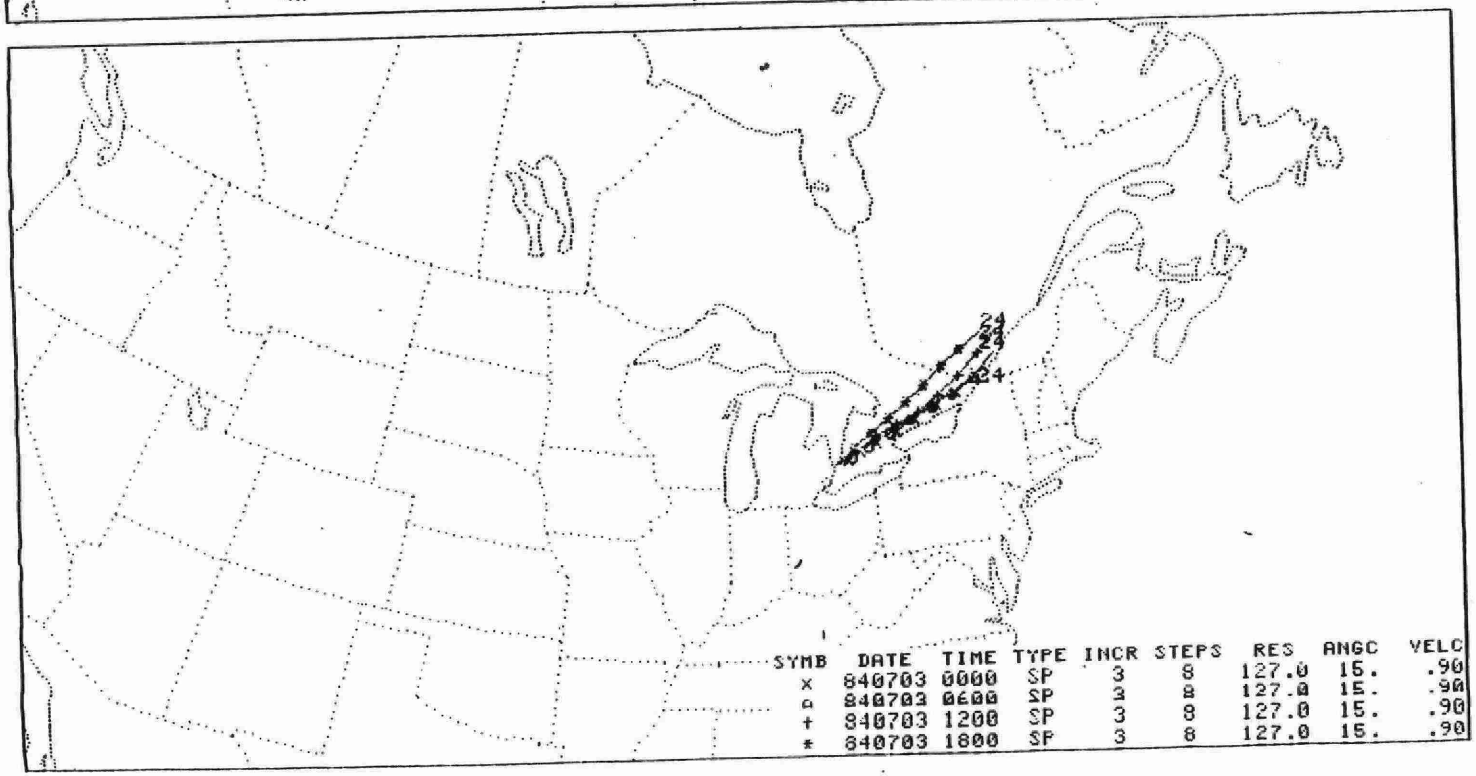
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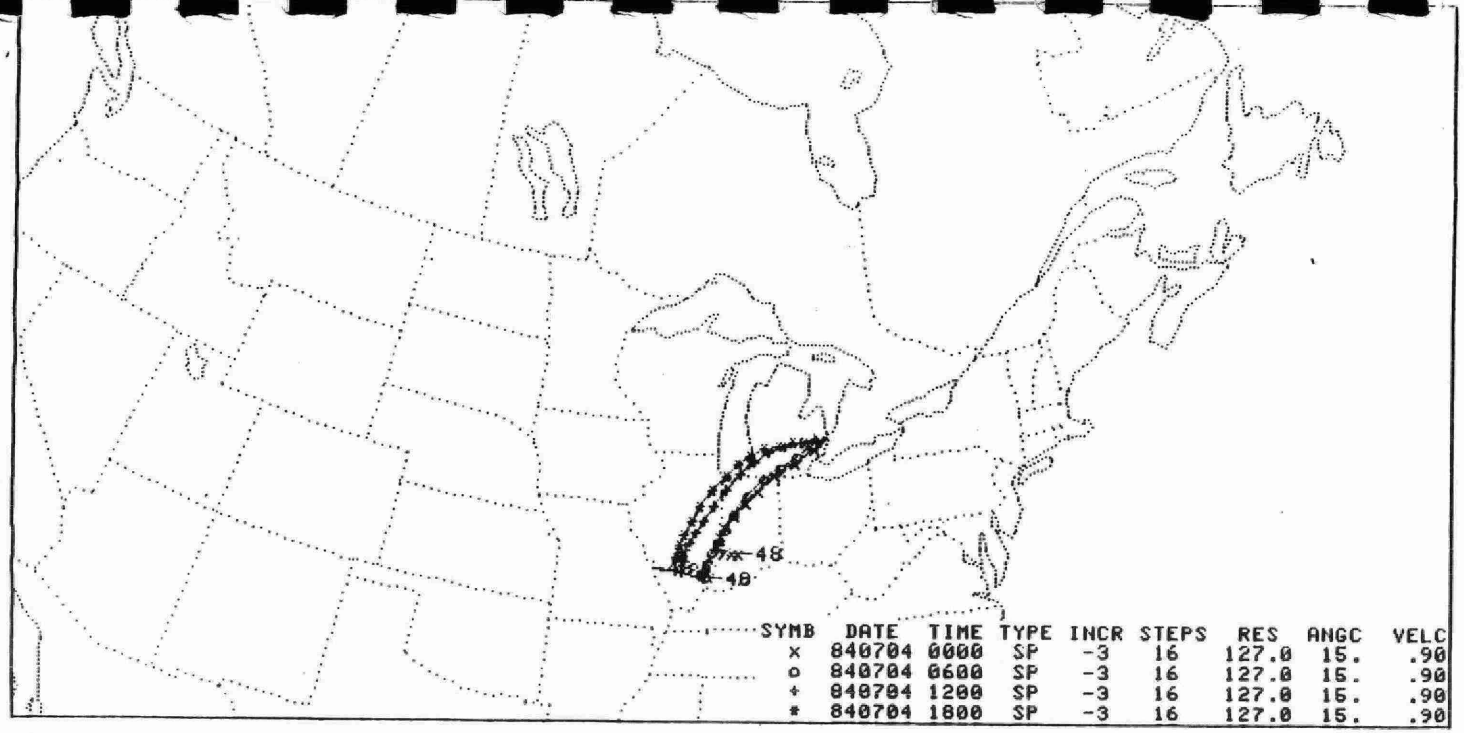
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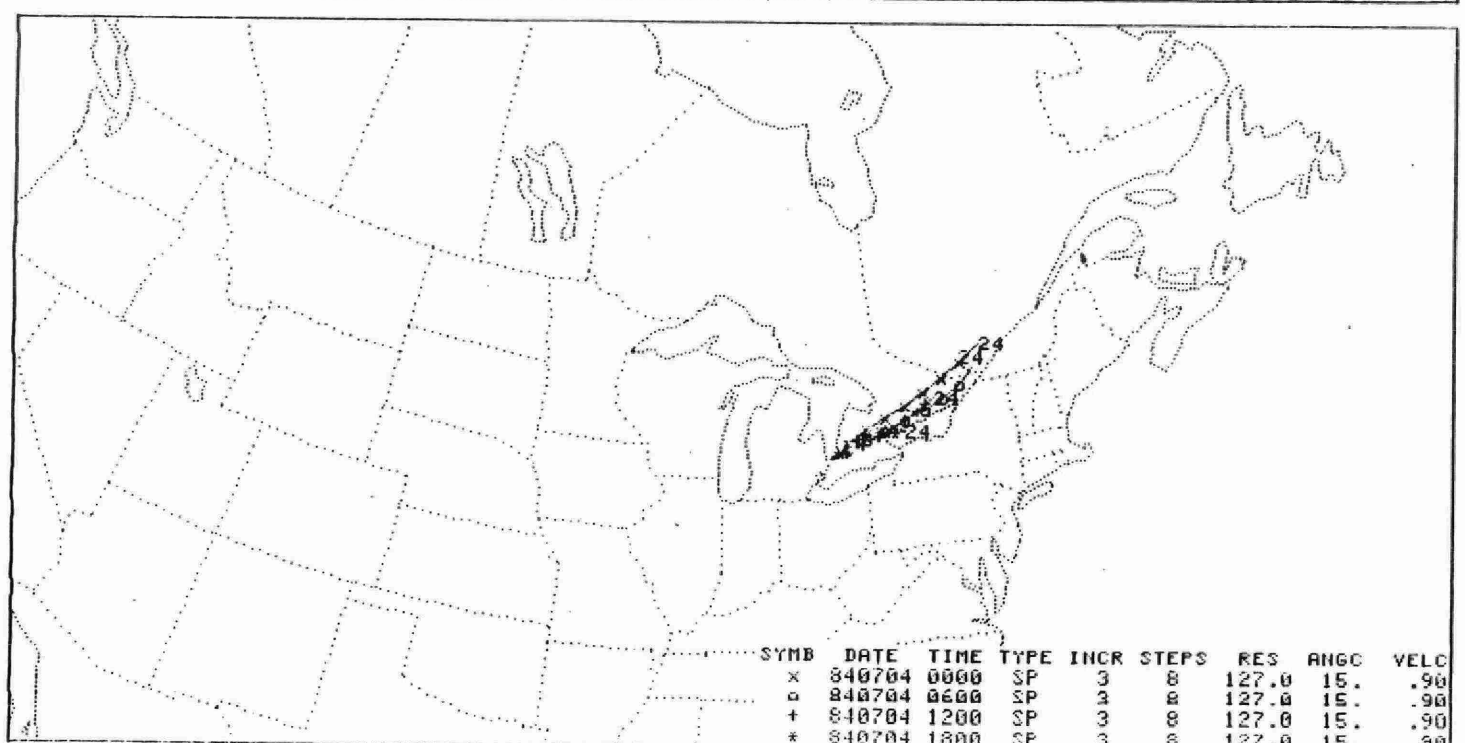
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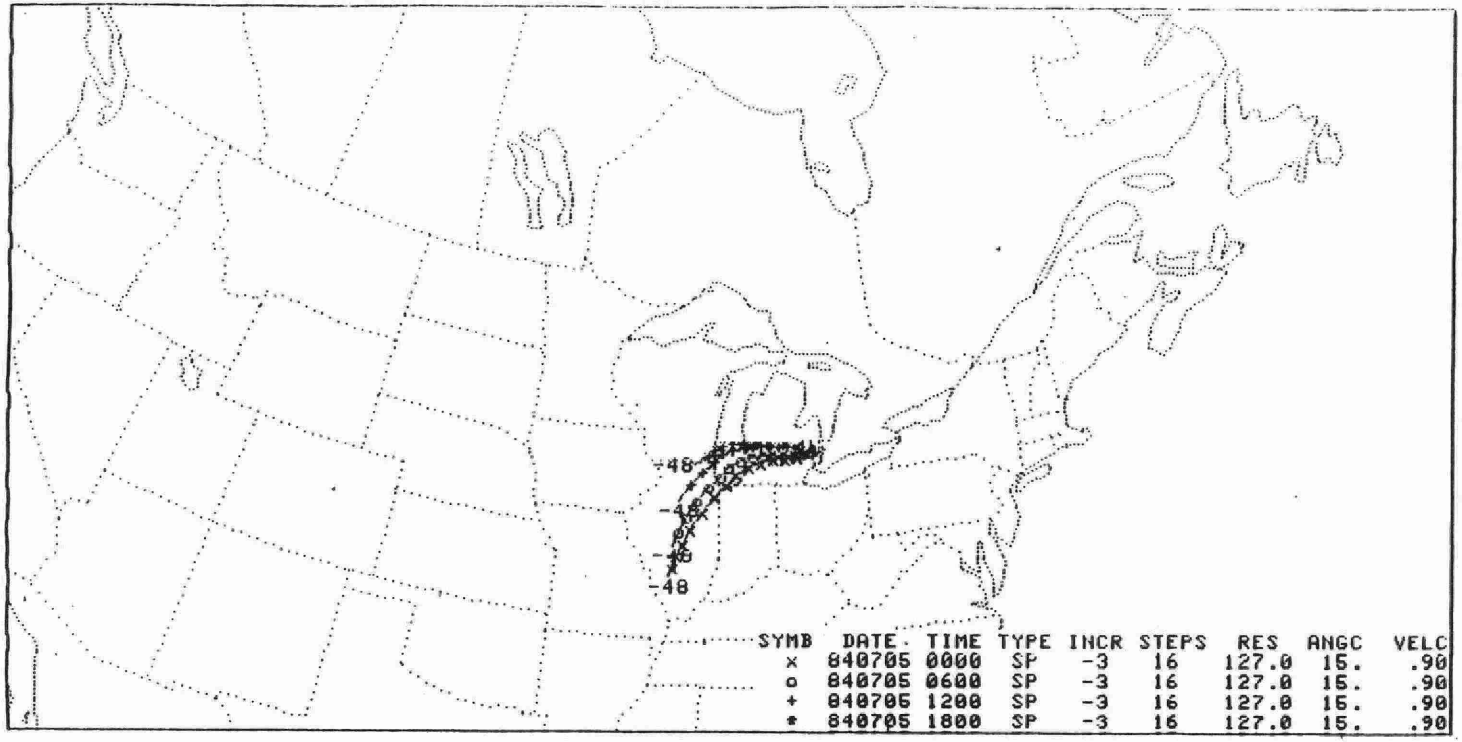
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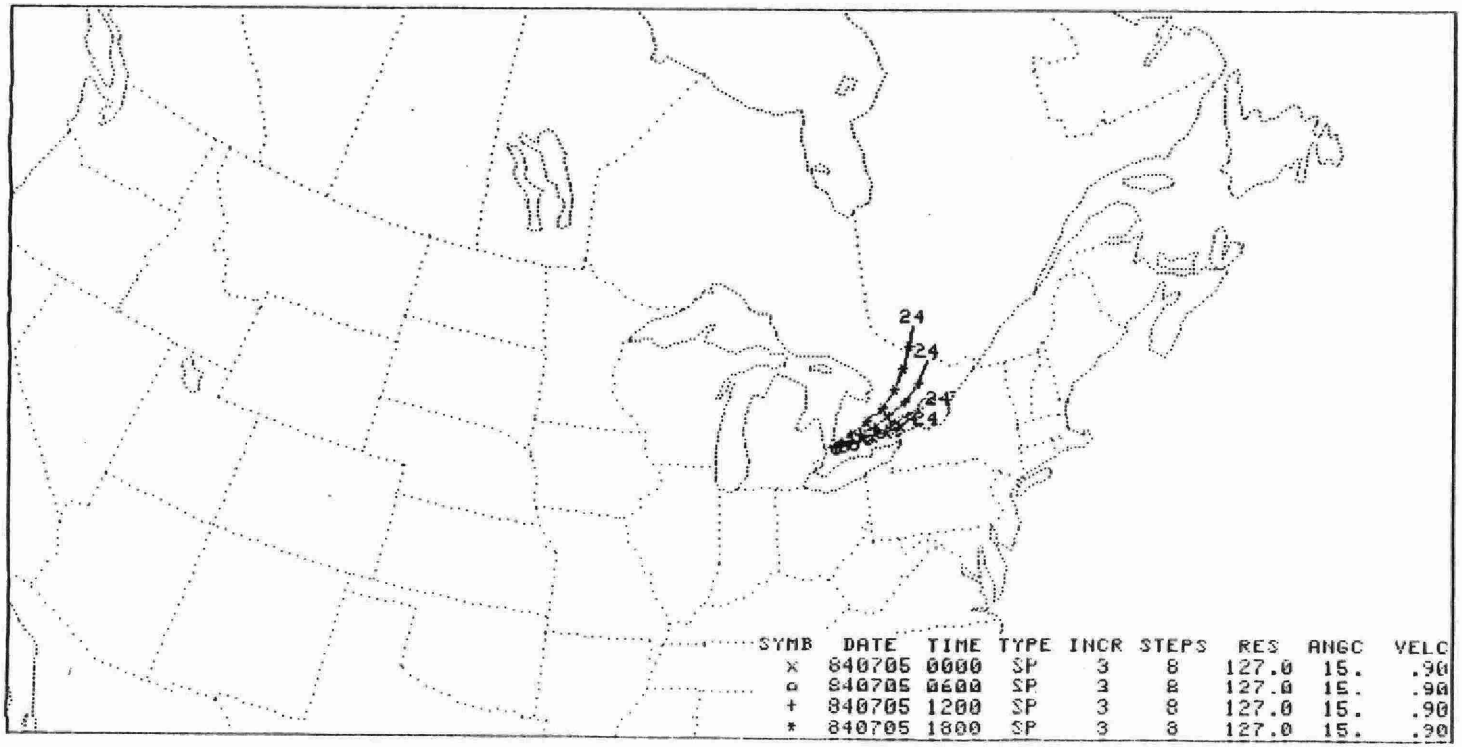
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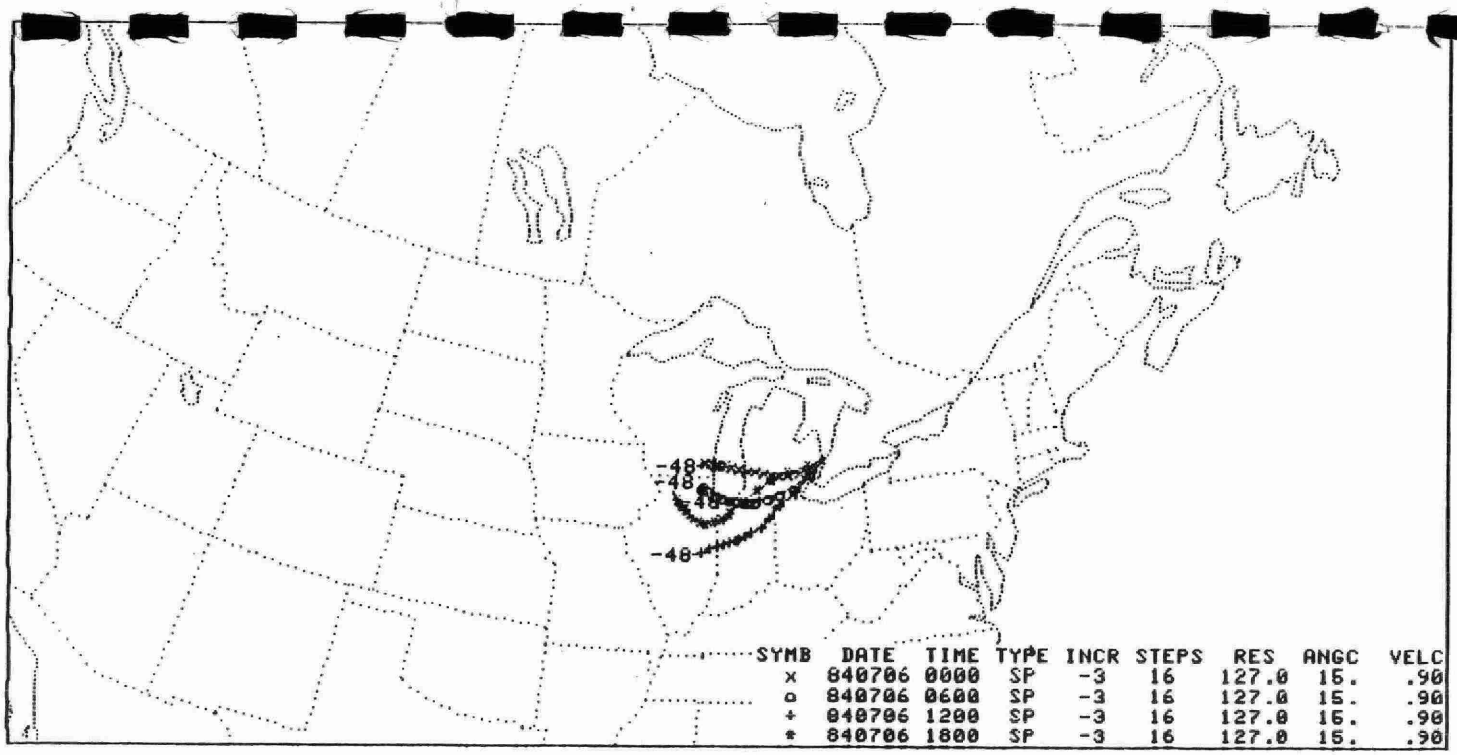
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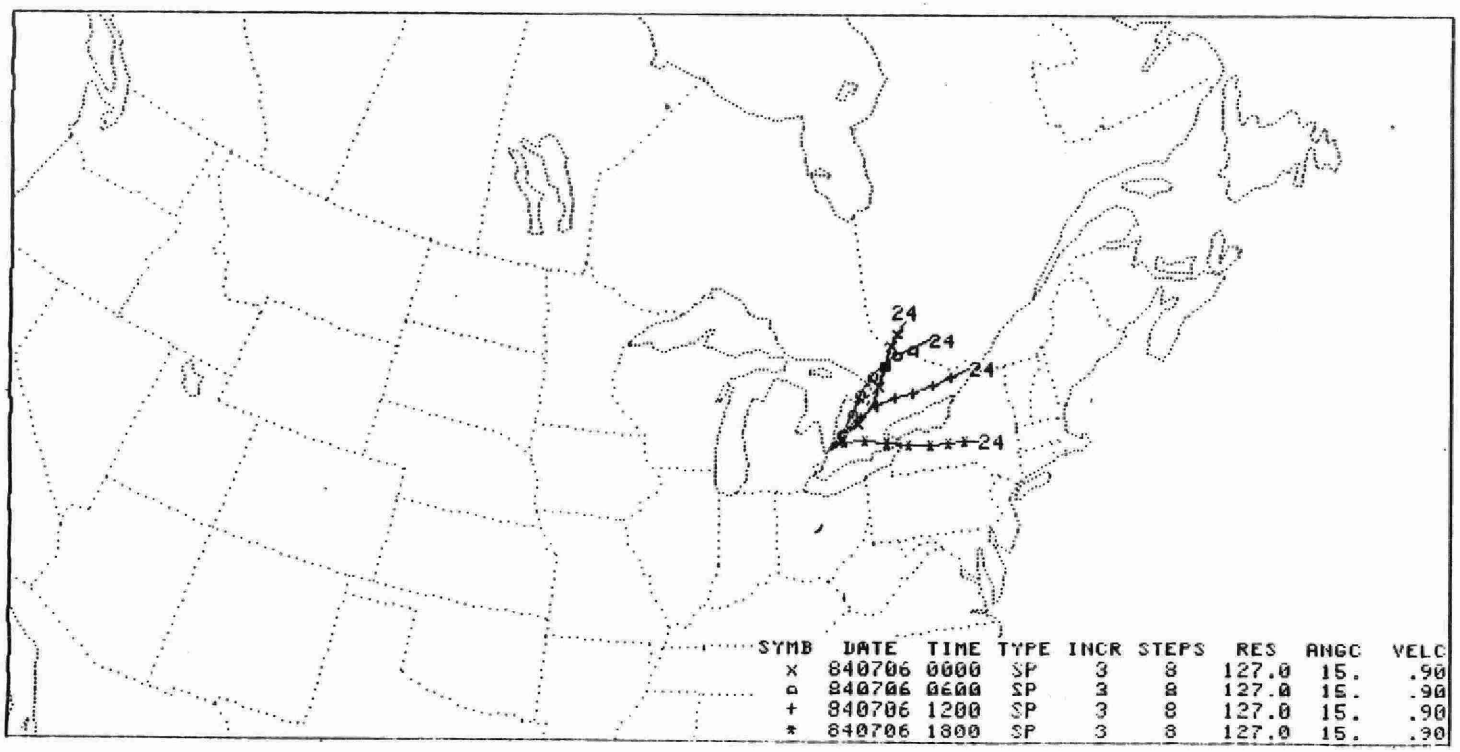
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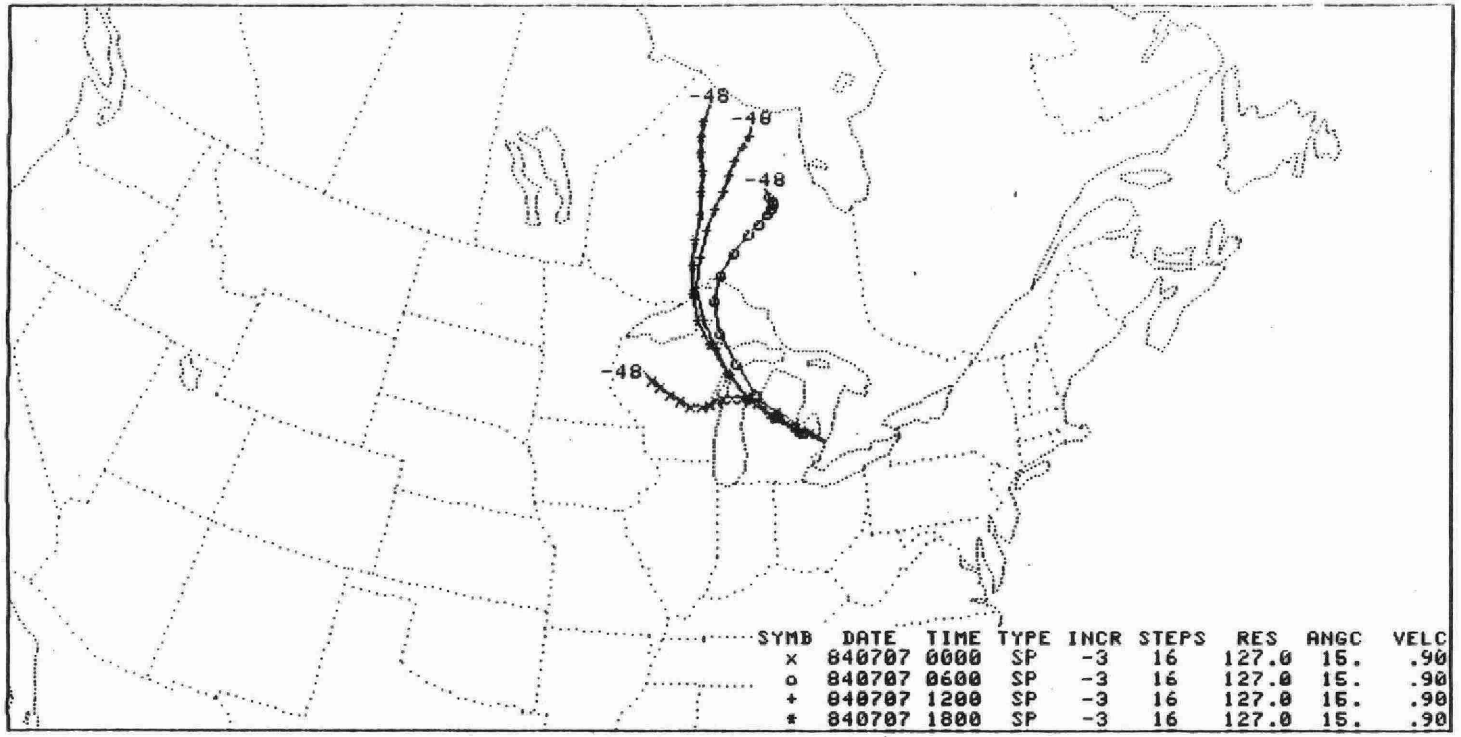
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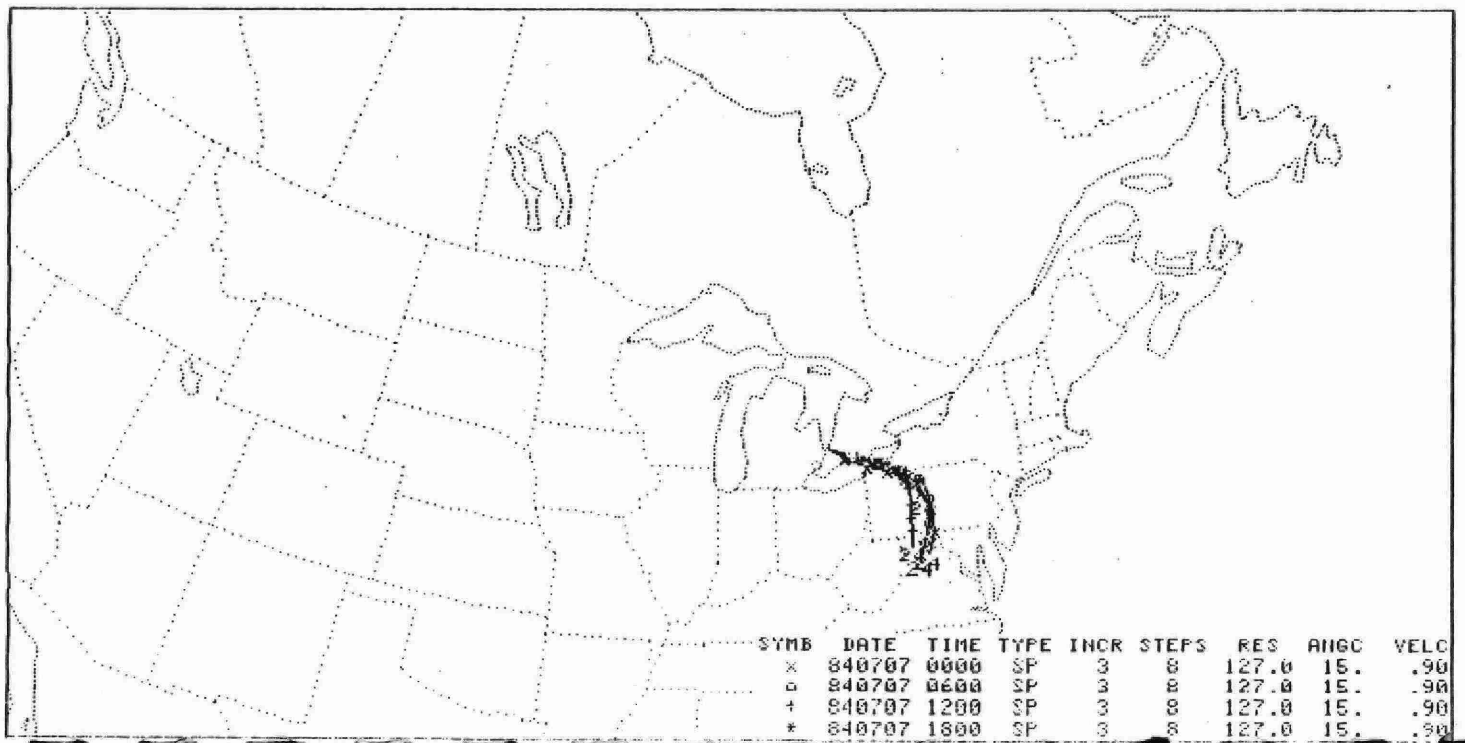
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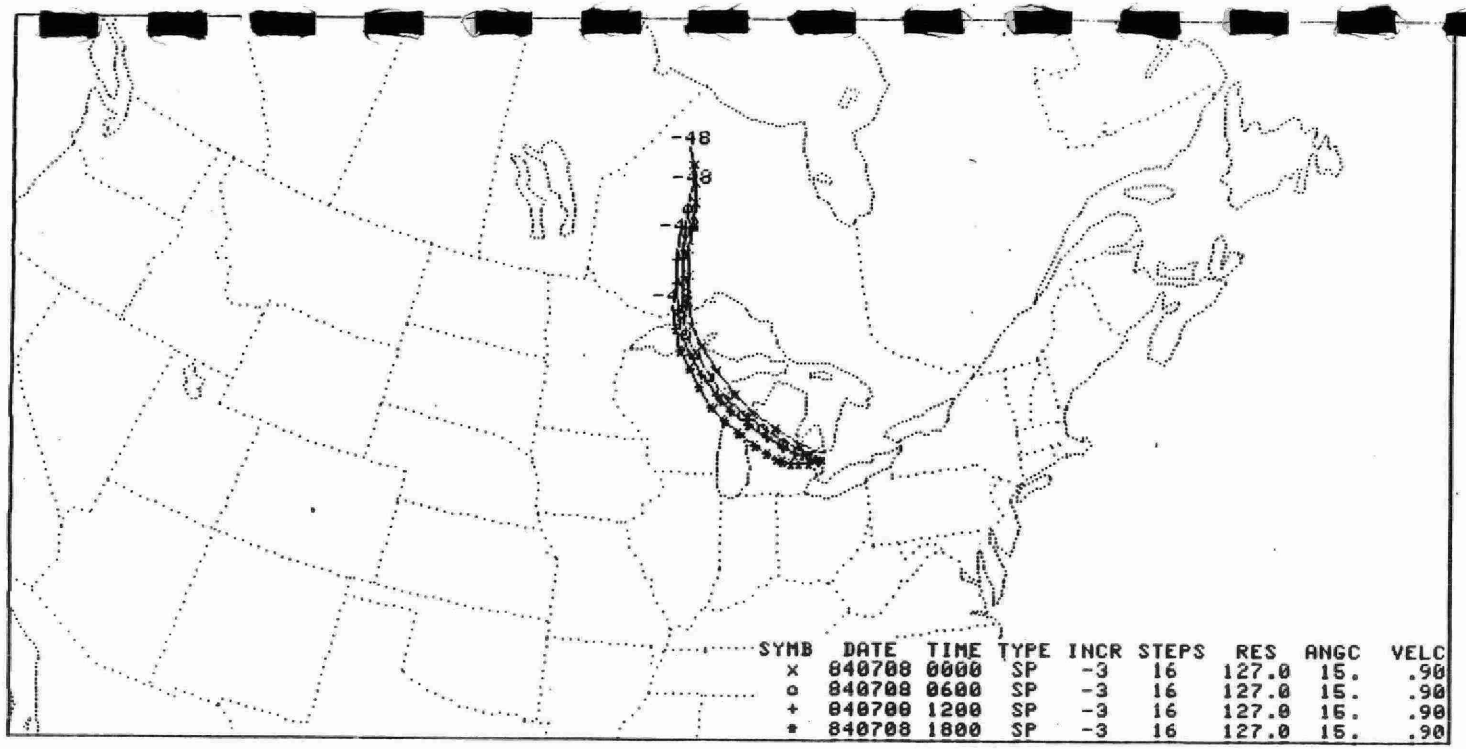
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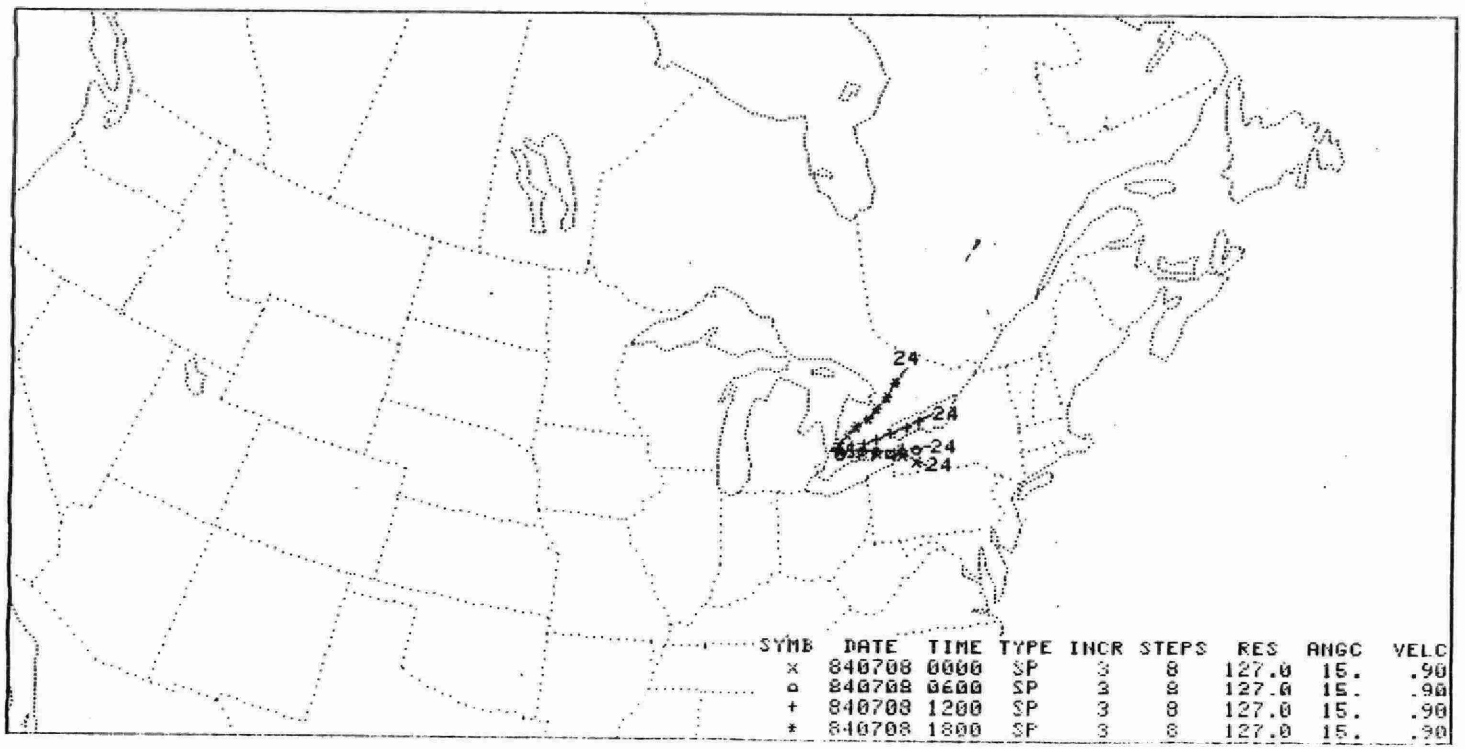
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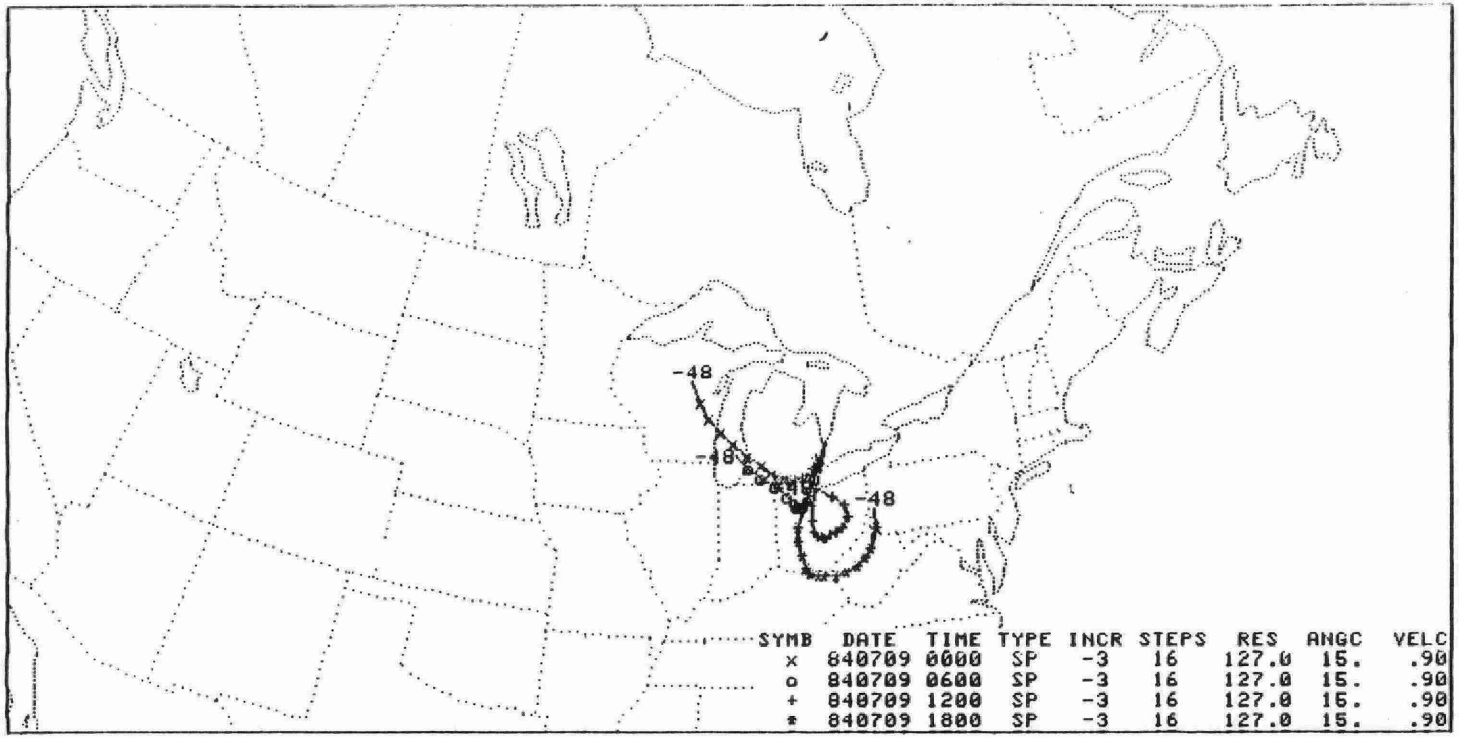
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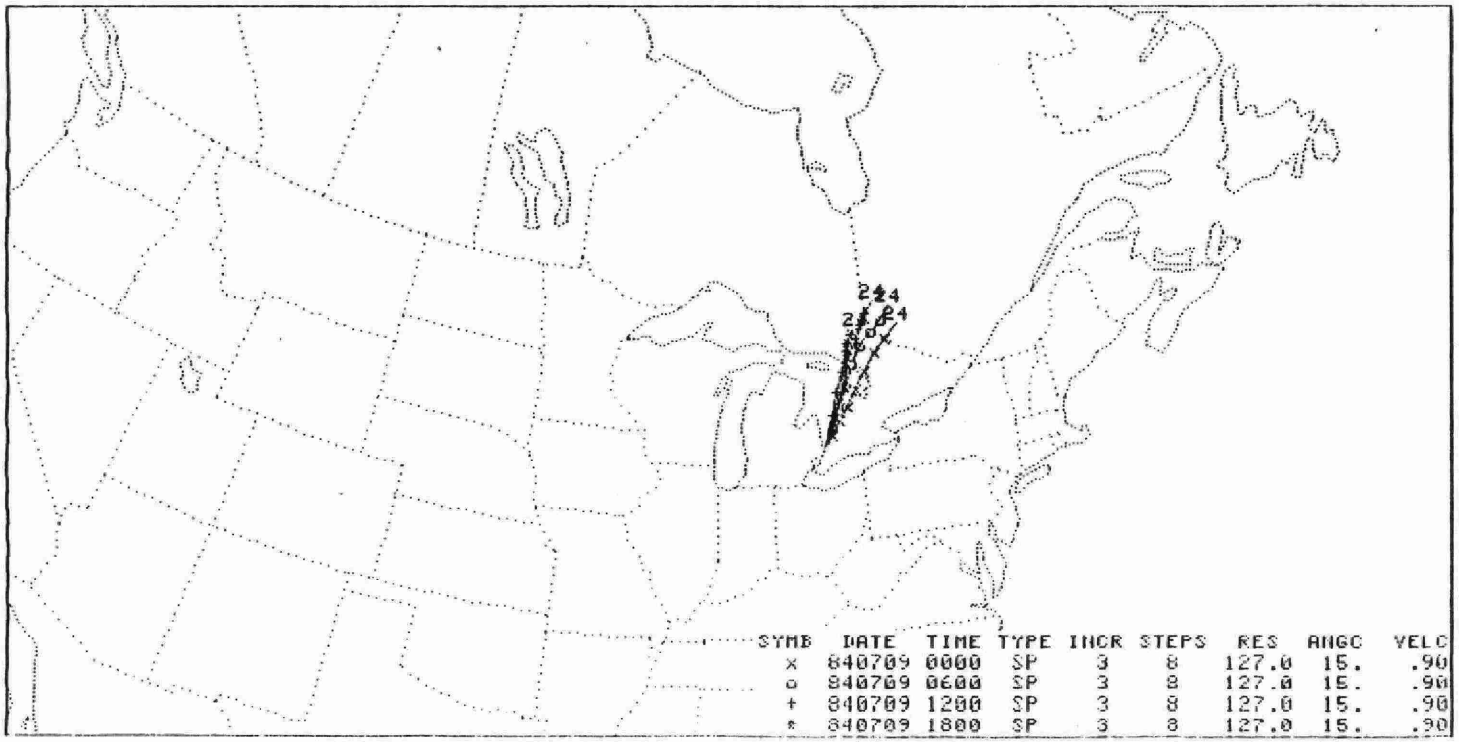
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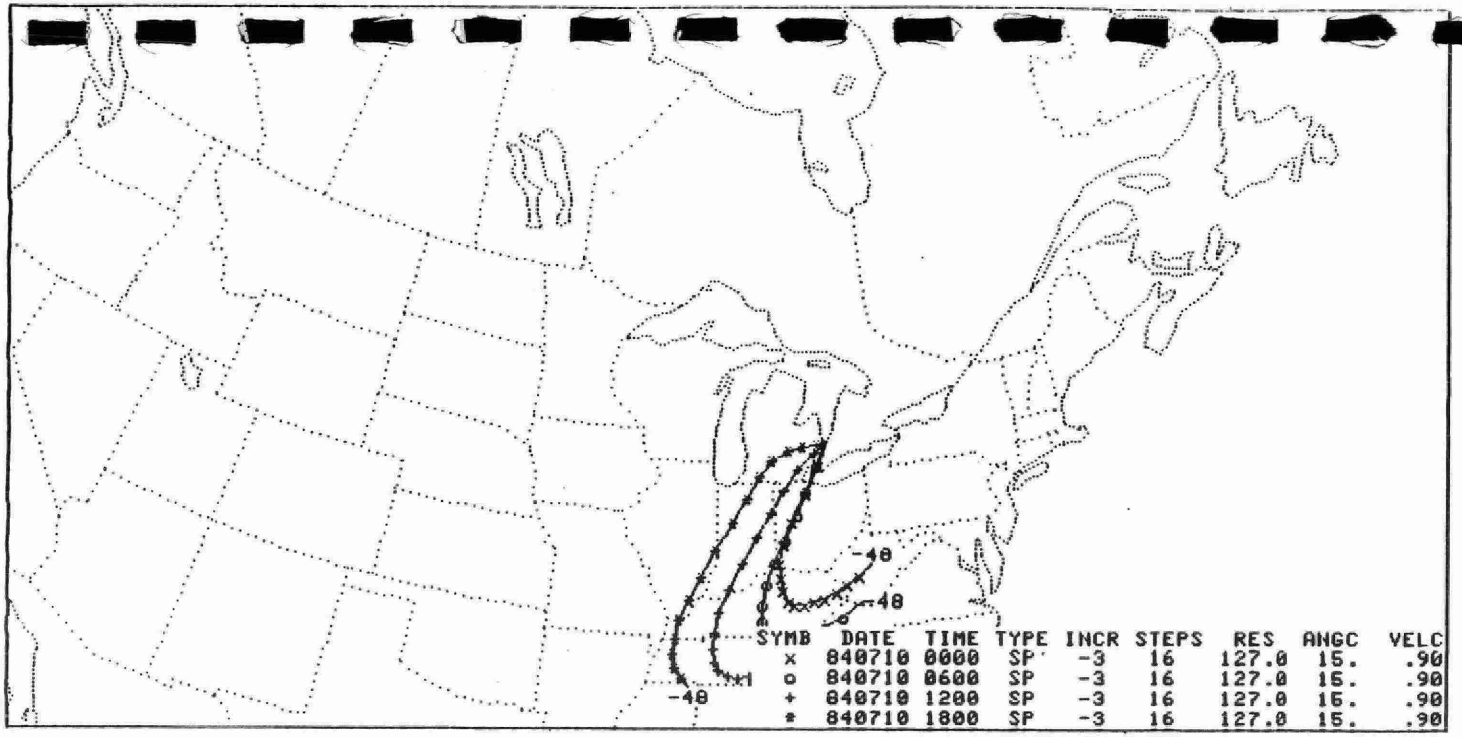
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*	840708	1800	SP	3	8	127.0	15.	.90



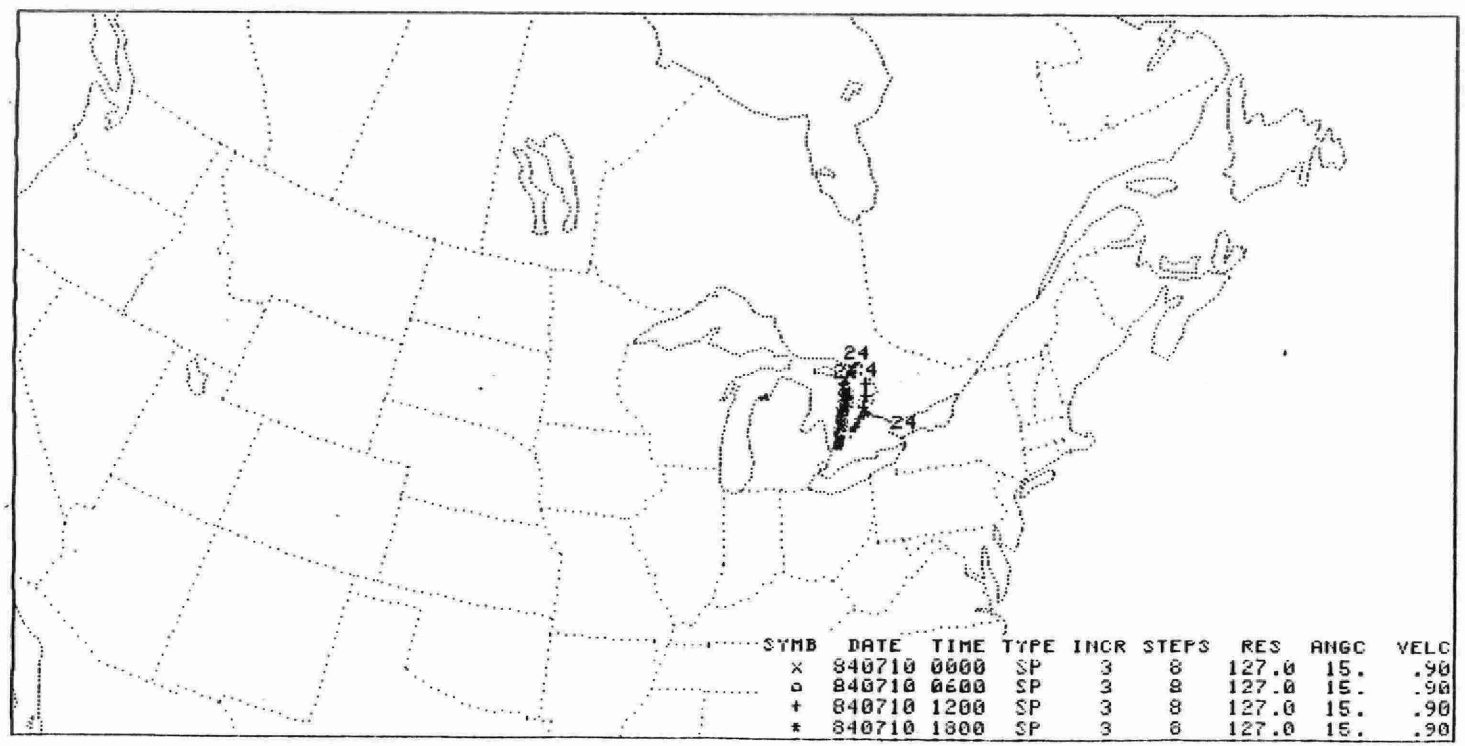
SYMB	DATE	TIME	TYPE	INCR	STEPS	RES	ANGC	VELC
x	840709	0000	SP	-3	16	127.0	15.	.90
o	840709	0600	SP	-3	16	127.0	15.	.90
+	840709	1200	SP	-3	16	127.0	15.	.90
*	840709	1800	SP	-3	16	127.0	15.	.90



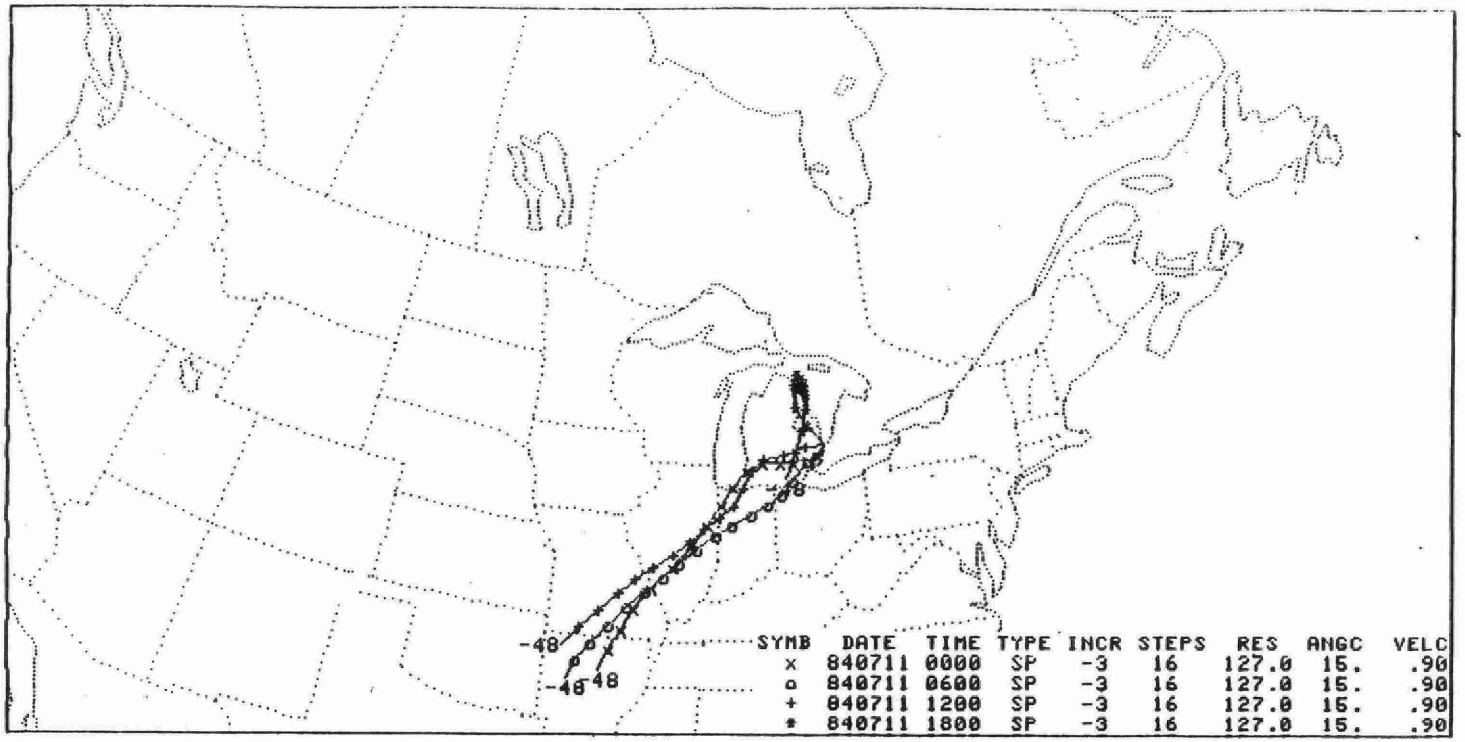
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o	840709	0600	SP	3	8	127.0	15.	.90
+	840709	1200	SP	3	8	127.0	15.	.90
*	840709	1800	SP	3	8	127.0	15.	.90



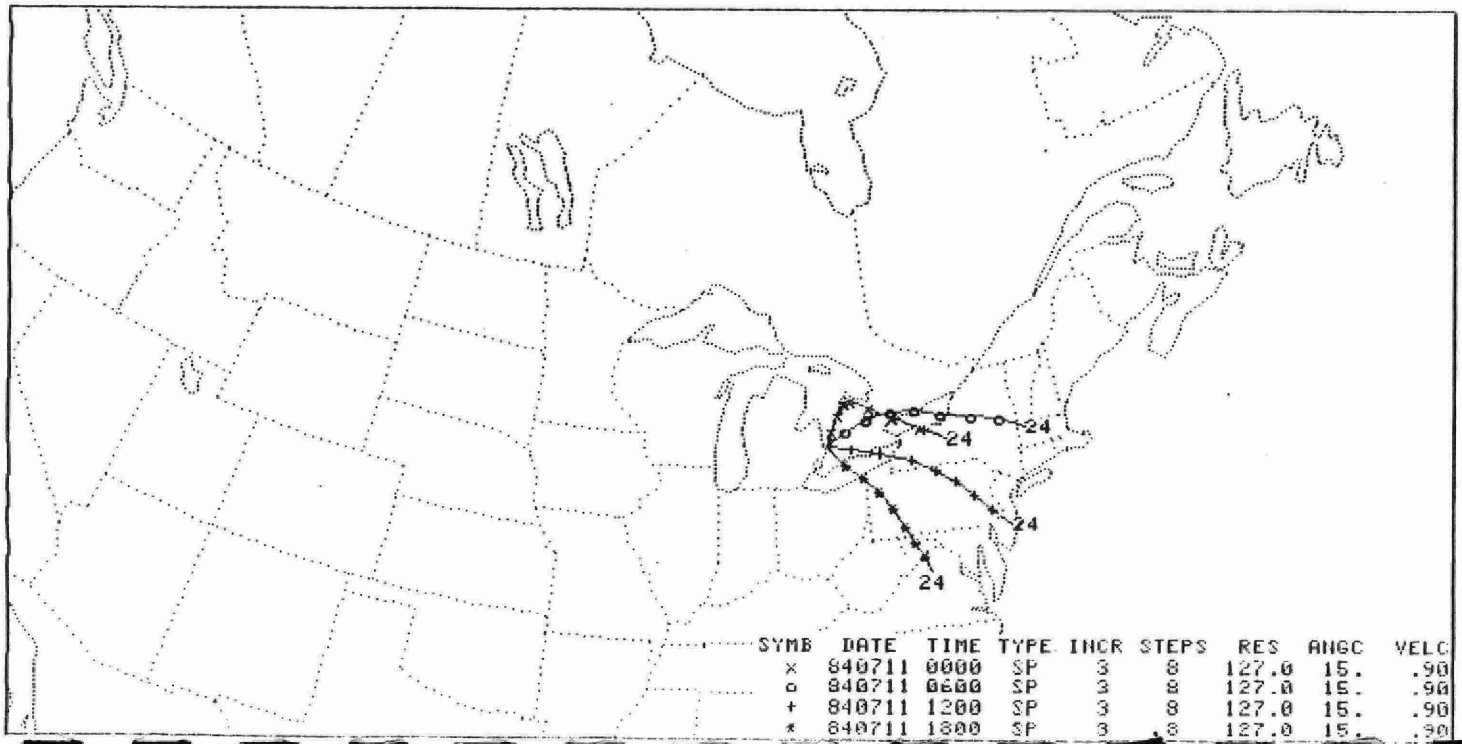
SYMB	DATE	TIME	TYPE	INCR	STEPS	RES	ANGC	VELC
x	840710	0000	SP	-3	16	127.0	15.	.90
o	840710	0600	SP	-3	16	127.0	15.	.90
+	840710	1200	SP	-3	16	127.0	15.	.90
*	840710	1800	SP	-3	16	127.0	15.	.90



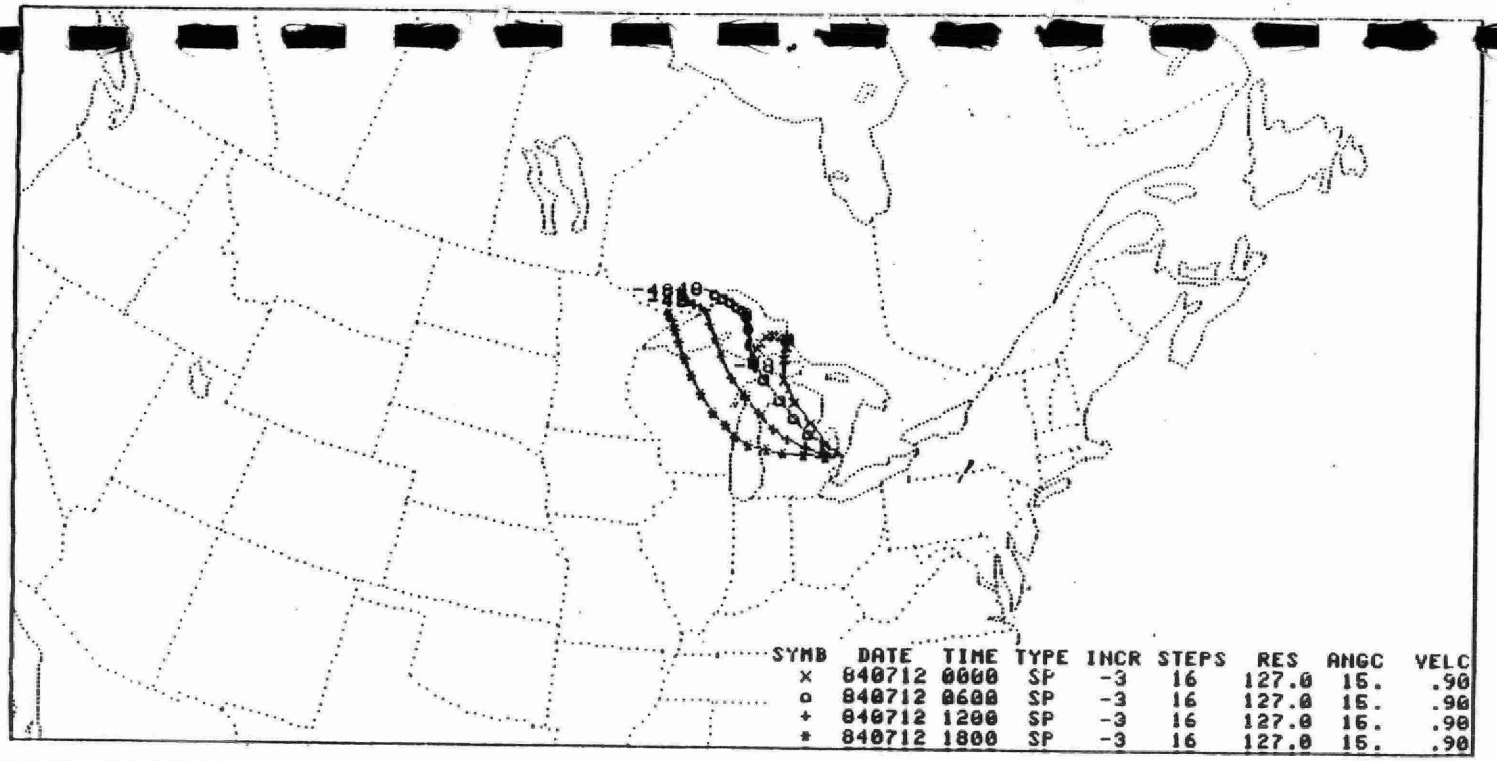
SYMB	DATE	TIME	TYPE	INCR	STEPS	RES	ANGC	VELC
x	840710	0000	SP	3	8	127.0	15.	.90
o	840710	0600	SP	3	8	127.0	15.	.90
+	840710	1200	SP	3	8	127.0	15.	.90
*	840710	1800	SP	3	8	127.0	15.	.90

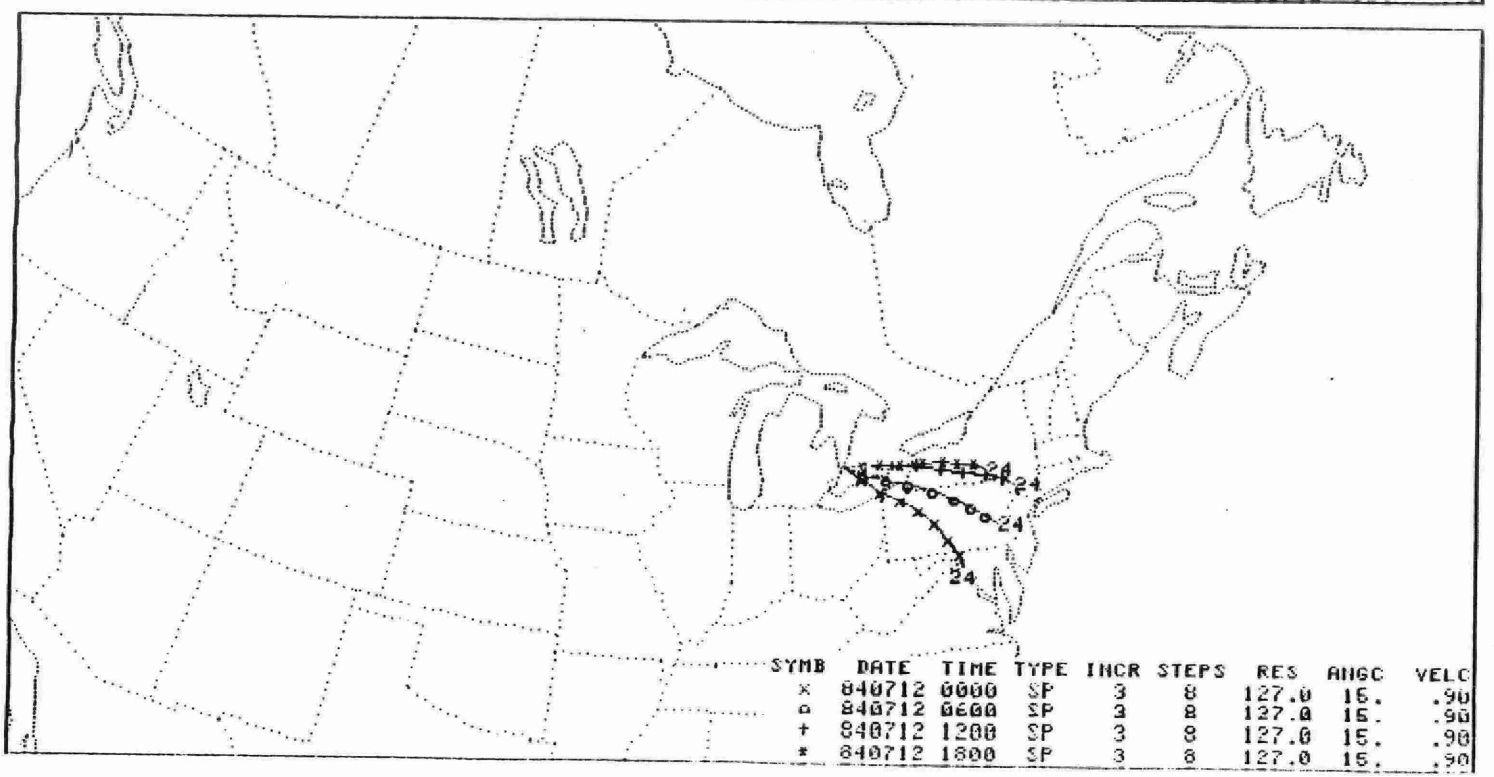


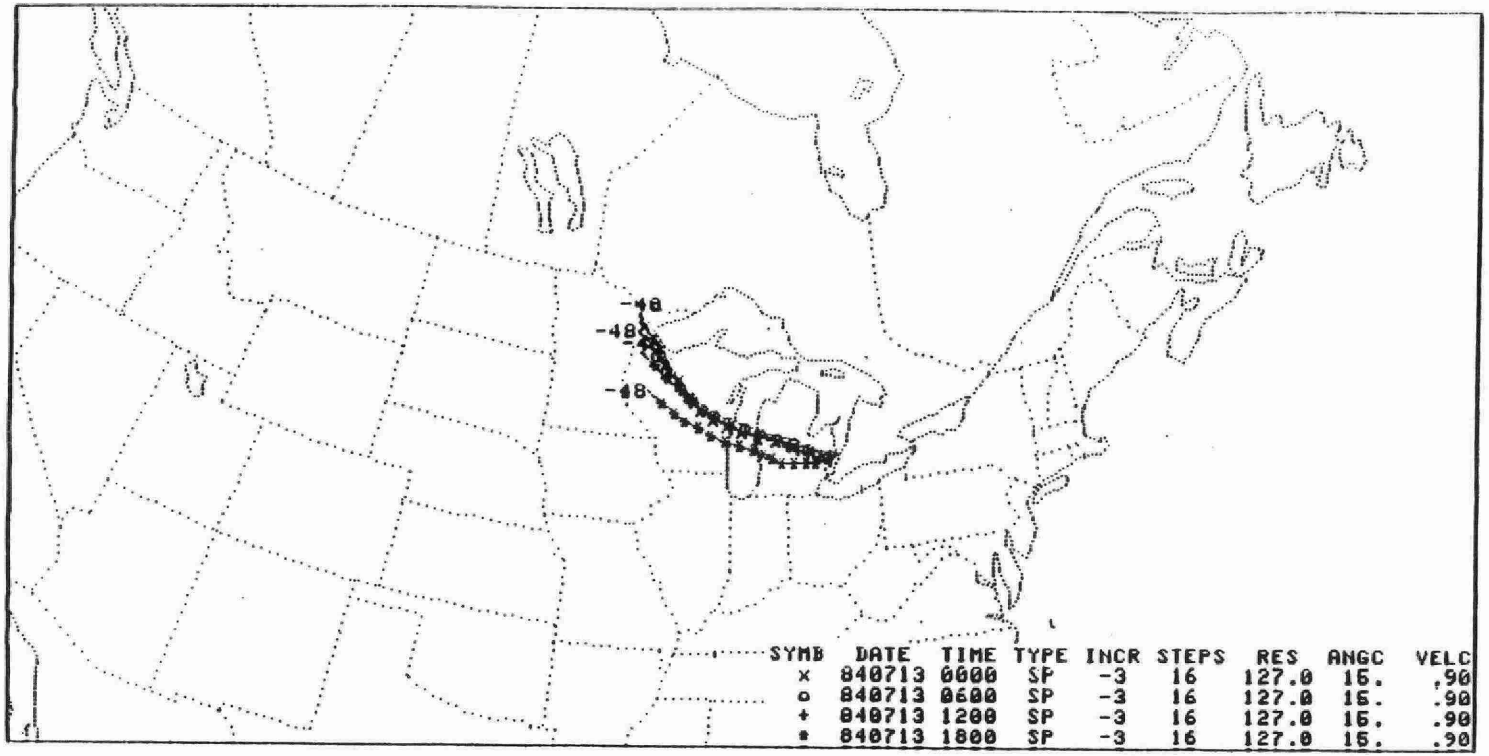
SYMB	DATE	TIME	TYPE	INCR	STEPS	RES	ANGC	VELC
x	840711	0000	SP	-3	16	127.0	15.	.90
o	840711	0600	SP	-3	16	127.0	15.	.90
+	840711	1200	SP	-3	16	127.0	15.	.90
*	840711	1800	SP	-3	16	127.0	15.	.90



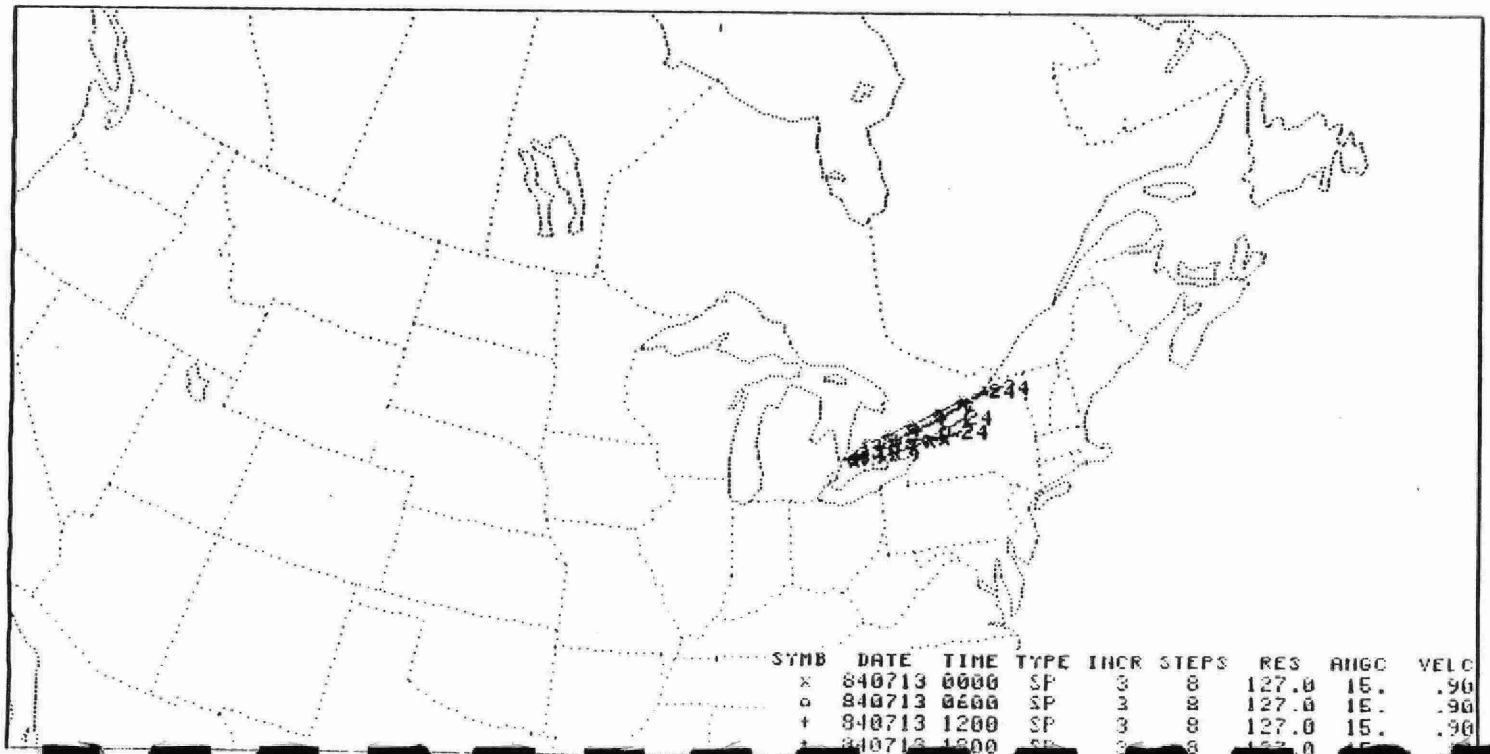
SYMB	DATE	TIME	TYPE	INCR	STEPS	RES	ANGC	VELC
x	840711	0000	SP	3	8	127.0	15.	.90
o	840711	0600	SP	3	8	127.0	15.	.90
+	840711	1200	SP	3	8	127.0	15.	.90
*	840711	1800	SP	3	8	127.0	15.	.90


SYMB DATE TIME TYPE INCR STEPS RES ANGC VELC
x 840712 0000 SP -3 16 127.0 15. .90
o 840712 0600 SP -3 16 127.0 15. .90
+ 840712 1200 SP -3 16 127.0 15. .90
* 840712 1800 SP -3 16 127.0 15. .90

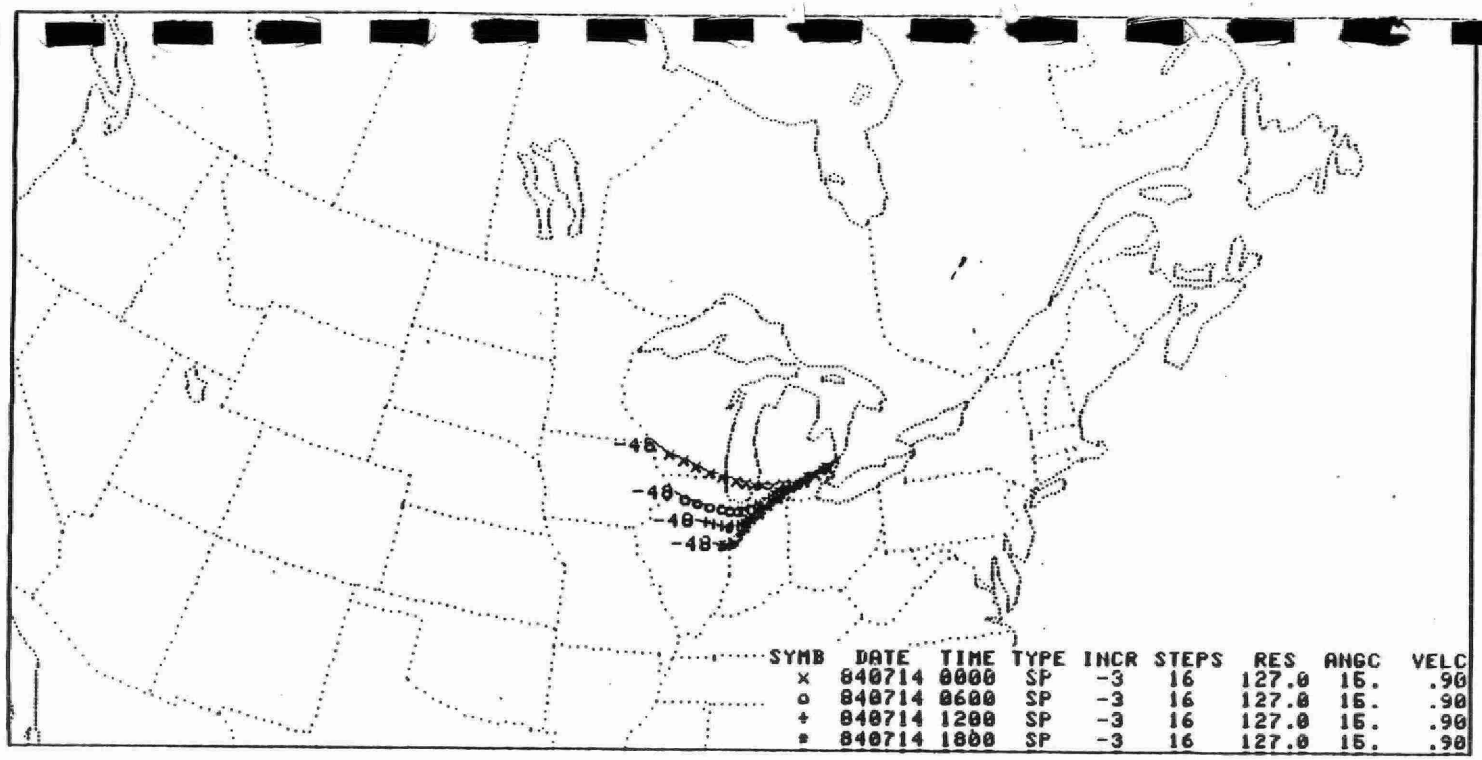

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SYMB DATE TIME TYPE INCR STEPS RES ANGC VELC
x 840712 0000 SP 3 8 127.0 15. .90
o 840712 0600 SP 3 8 127.0 15. .90
+ 840712 1200 SP 3 8 127.0 15. .90
* 840712 1800 SP 3 8 127.0 15. .90



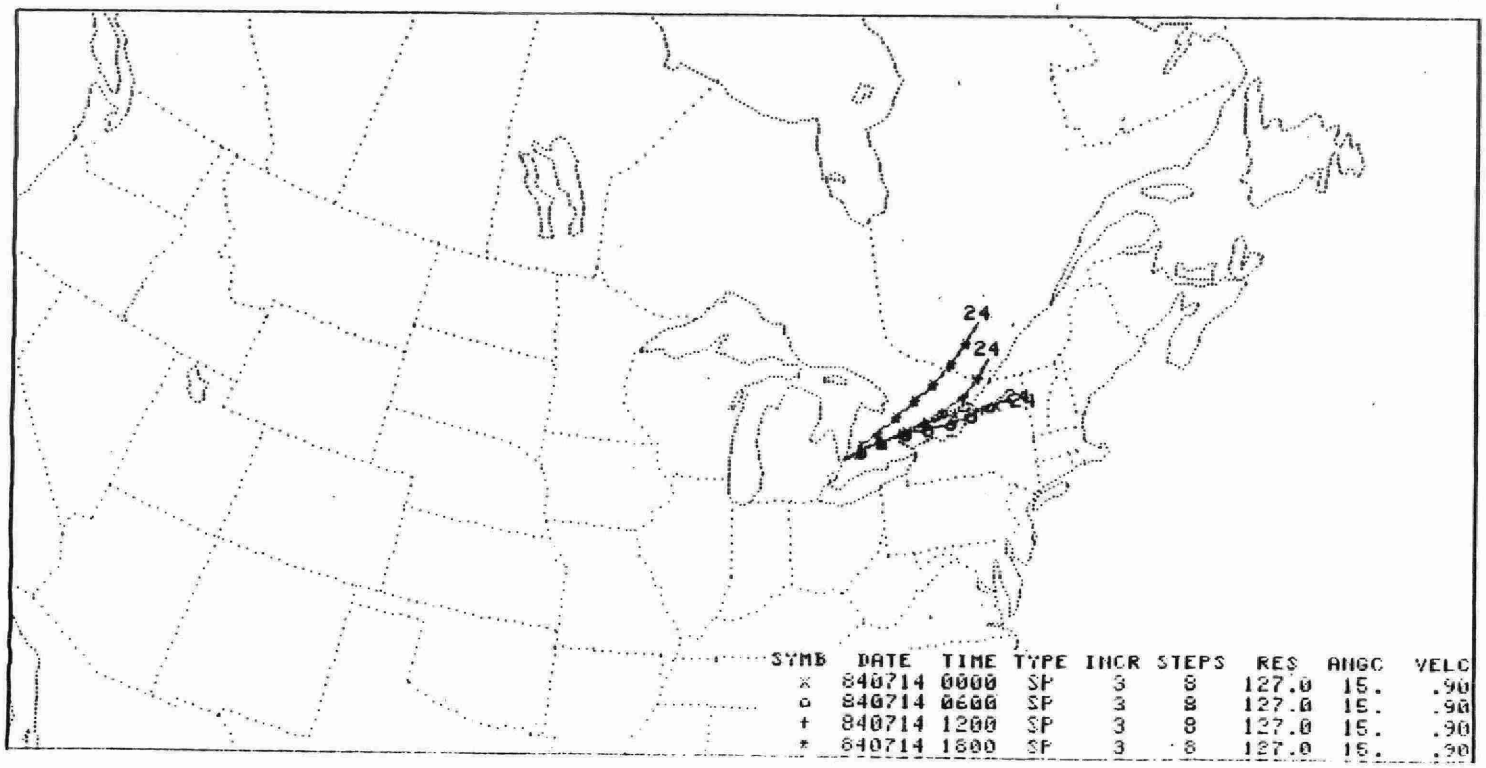
SYMB	DATE	TIME	TYPE	INCR	STEPS	RES	ANGC	VELC
x	840713	0000	SP	-3	16	127.0	15.	.90
o	840713	0600	SP	-3	16	127.0	15.	.90
+	840713	1200	SP	-3	16	127.0	15.	.90
*	840713	1800	SP	-3	16	127.0	15.	.90



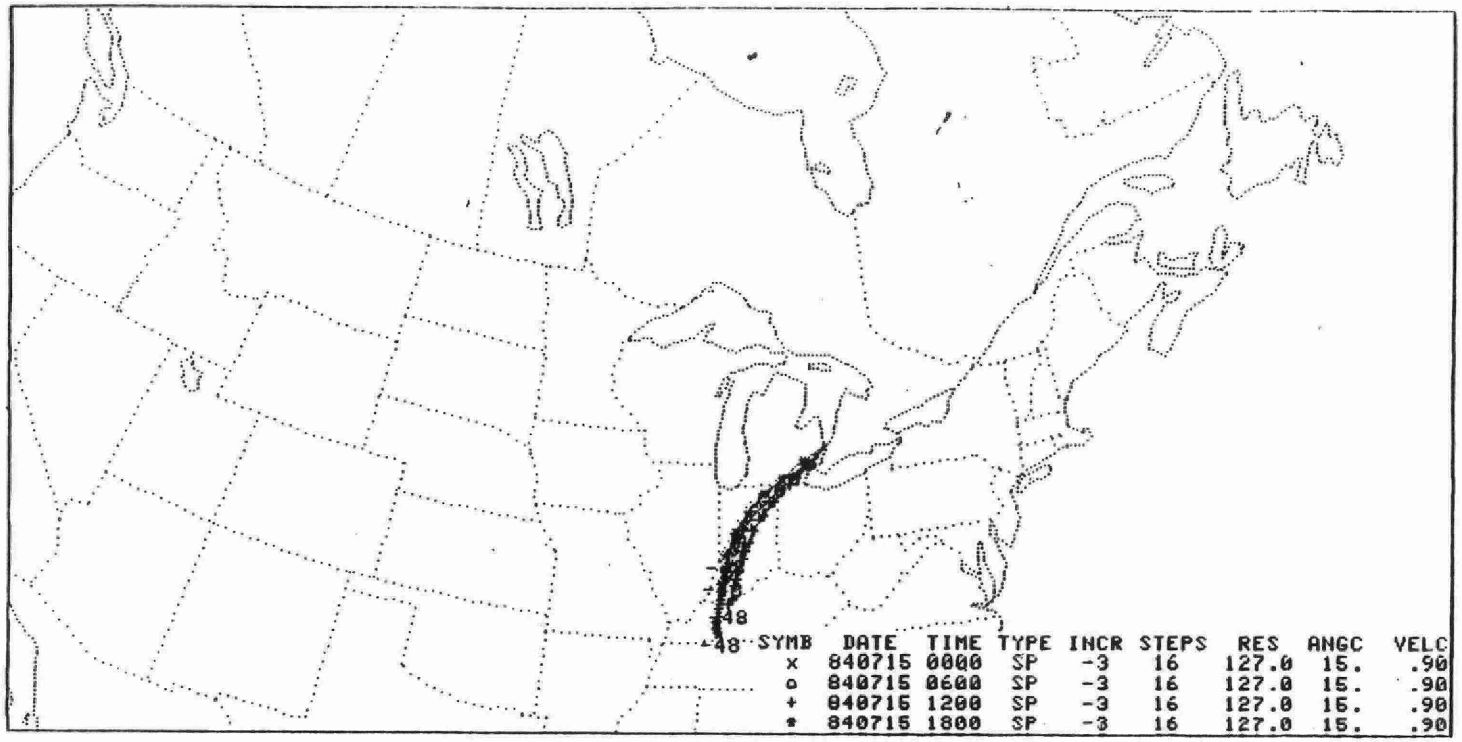
SYMB	DATE	TIME	TYPE	INCR	STEPS	RES	ANGC	VELC
x	840713	0000	SP	3	8	127.0	15.	.90
o	840713	0600	SP	3	8	127.0	15.	.90
+	840713	1200	SP	3	8	127.0	15.	.90



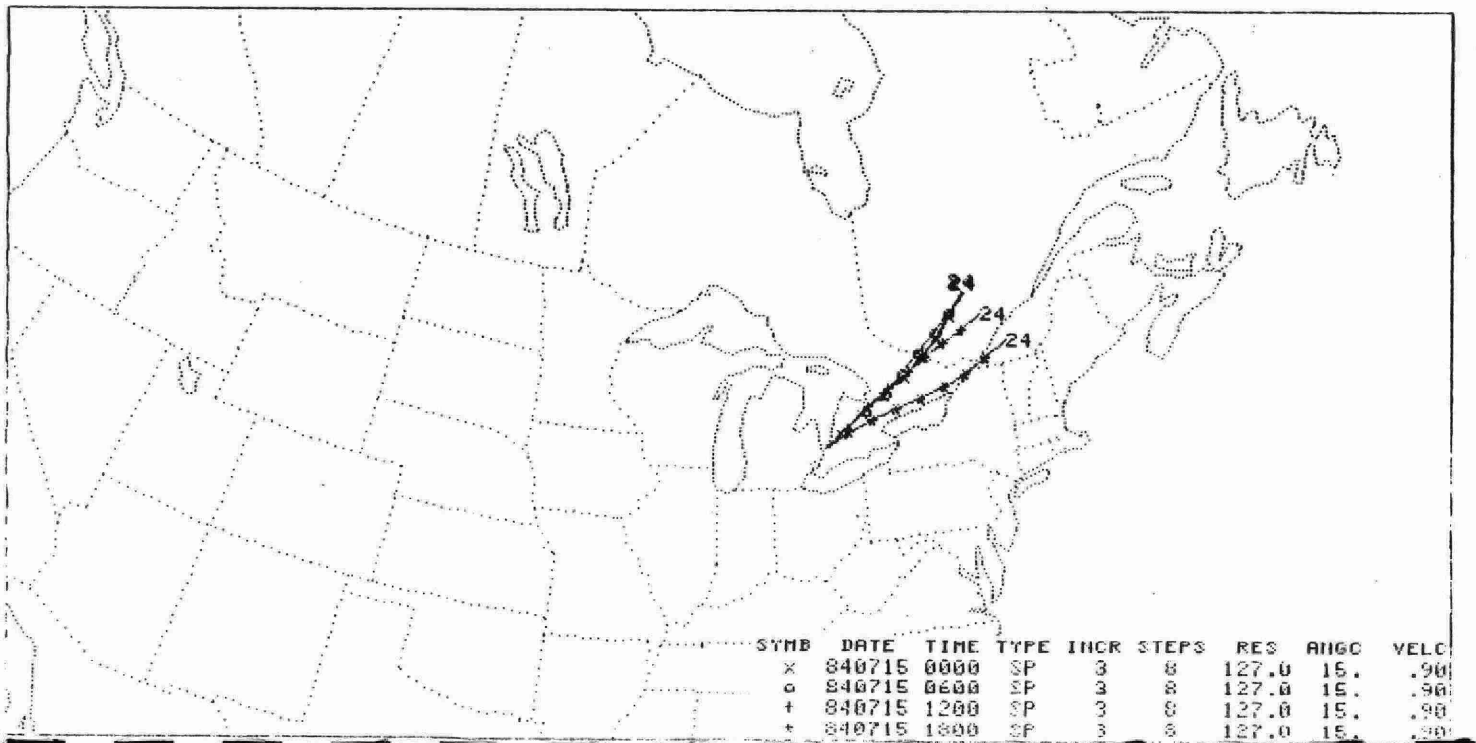
SYMB	DATE	TIME	TYPE	INCR	STEPS	RES	ANGC	VELC
x	840714	0000	SP	-3	16	127.0	15.	.90
o	840714	0600	SP	-3	16	127.0	15.	.90
+	840714	1200	SP	-3	16	127.0	15.	.90
*	840714	1800	SP	-3	16	127.0	15.	.90



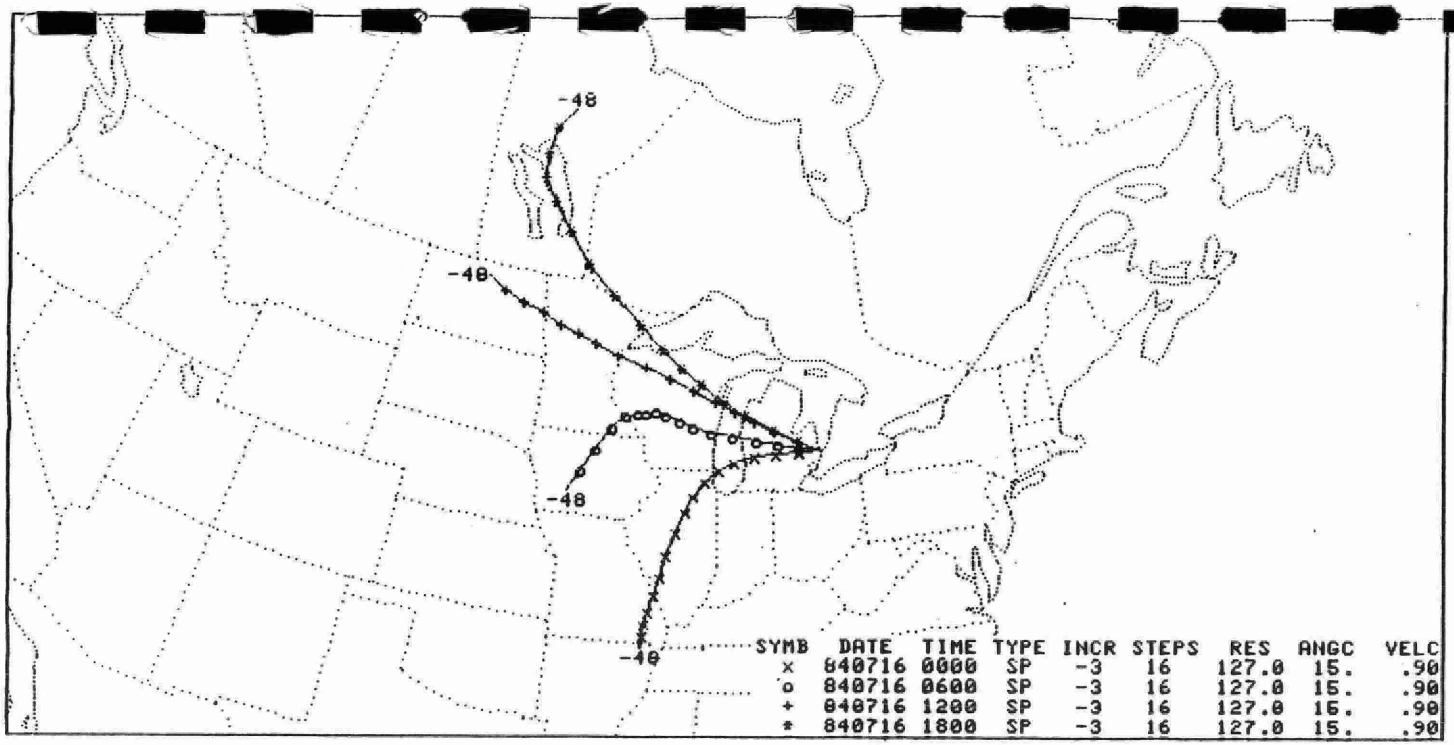
SYMB	DATE	TIME	TYPE	INCR	STEPS	RES	ANGC	VELC
x	840714	0000	SP	3	8	127.0	15.	.90
o	840714	0600	SP	3	8	127.0	15.	.90
+	840714	1200	SP	3	8	127.0	15.	.90
*	840714	1800	SP	3	8	127.0	15.	.90

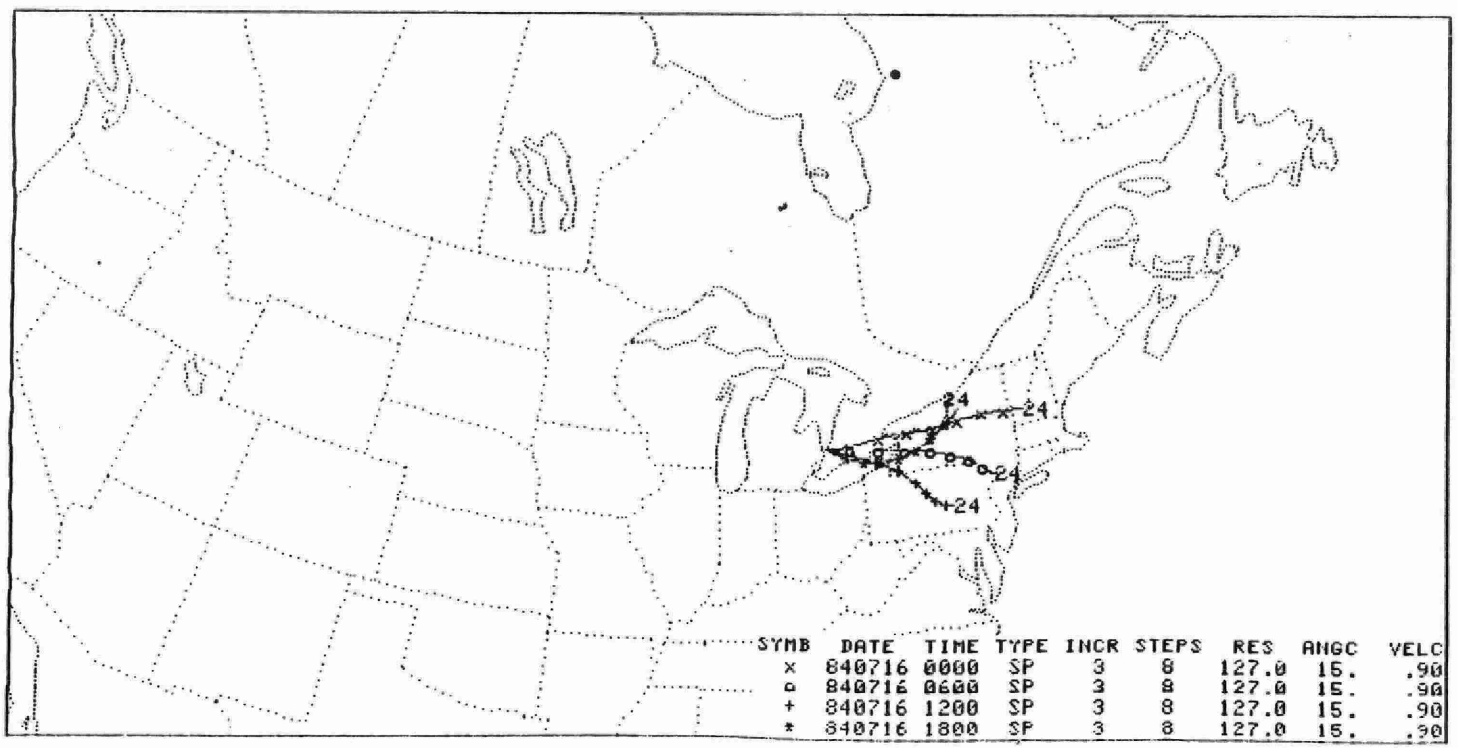


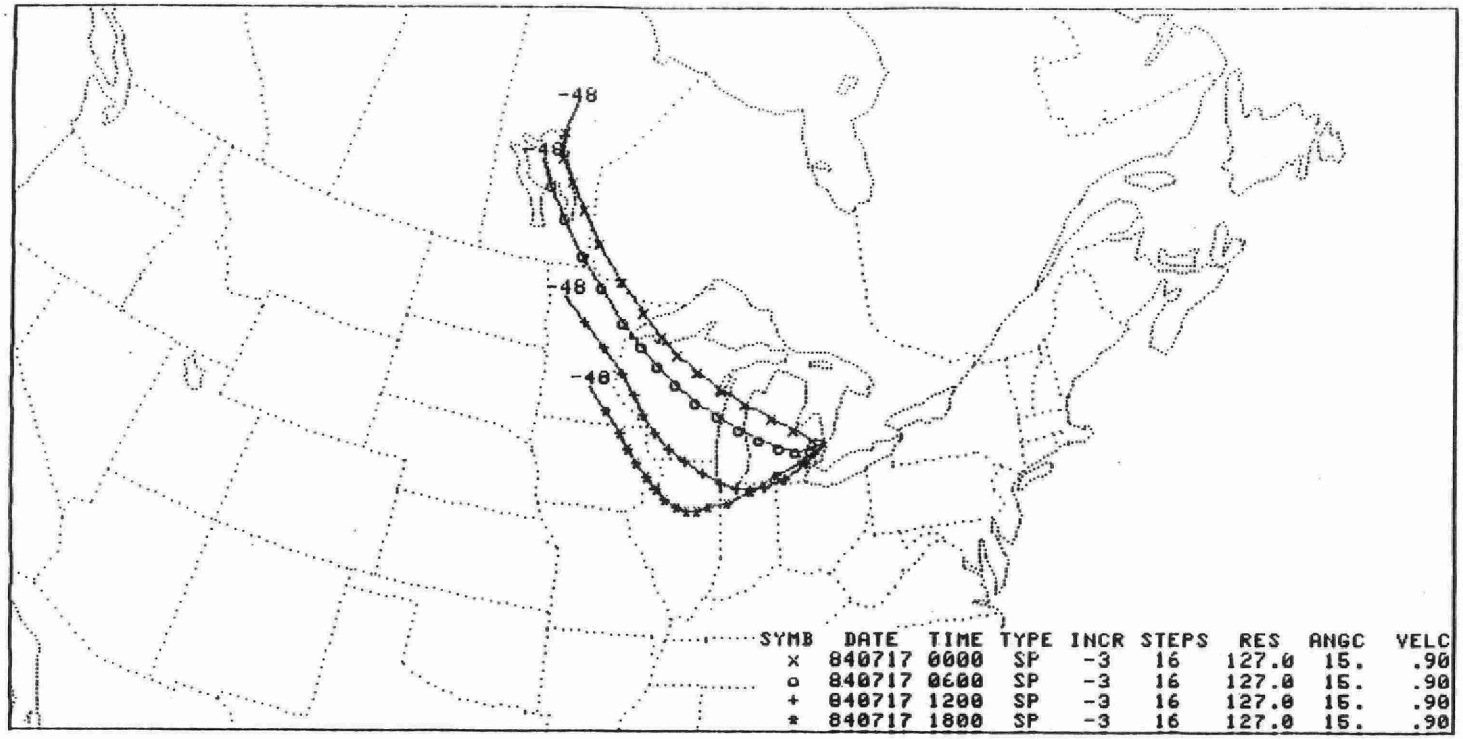
SYMB	DATE	TIME	TYPE	INCR	STEPS	RES	ANGC	VELC
x	840715	0000	SP	-3	16	127.0	15.	.90
o	840715	0600	SP	-3	16	127.0	15.	.90
+	840715	1200	SP	-3	16	127.0	15.	.90
*	840715	1800	SP	-3	16	127.0	15.	.90



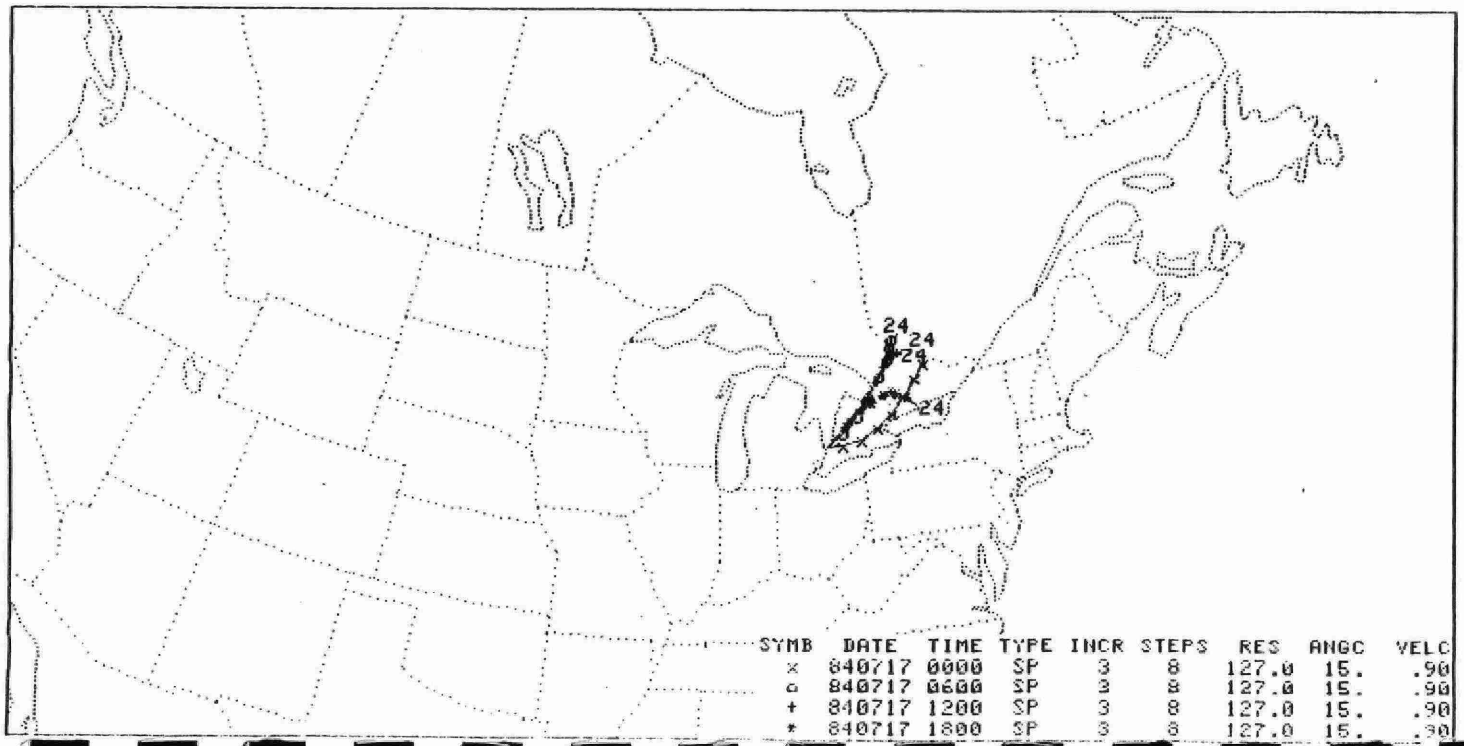
SYMB	DATE	TIME	TYPE	INCR	STEPS	RES	ANGC	VELC
x	840715	0000	SP	3	8	127.0	15.	.90
o	840715	0600	SP	3	8	127.0	15.	.90
+	840715	1200	SP	3	8	127.0	15.	.90
*	840715	1800	SP	3	8	127.0	15.	.90


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-48
-48
-48
SYMB DATE TIME TYPE INCR STEPS RES ANGC VELC
x 840716 0000 SP -3 16 127.0 15. .90
o 840716 0600 SP -3 16 127.0 15. .90
+ 840716 1200 SP -3 16 127.0 15. .90
* 840716 1800 SP -3 16 127.0 15. .90

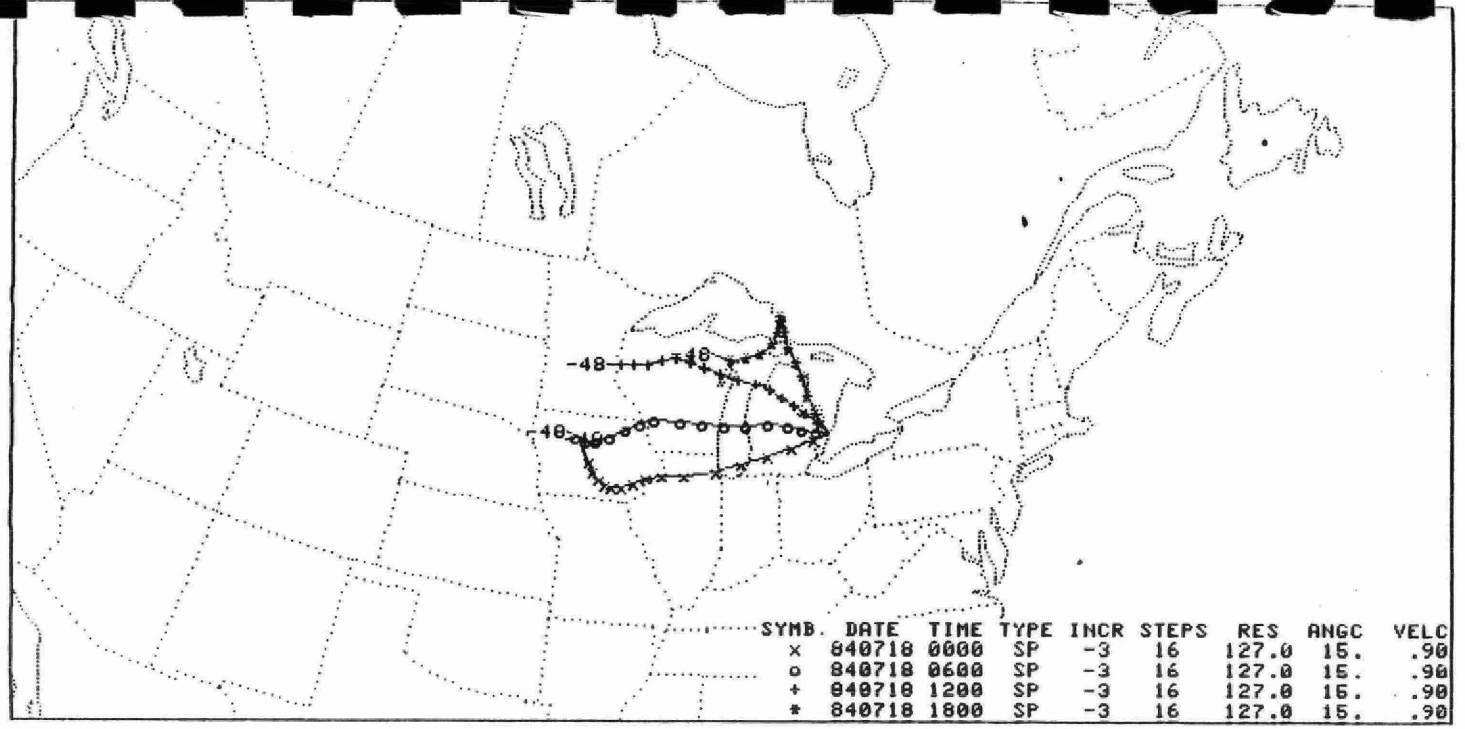

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SYMB DATE TIME TYPE INCR STEPS RES ANGC VELC
x 840716 0000 SP 3 8 127.0 15. .90
o 840716 0600 SP 3 8 127.0 15. .90
+ 840716 1200 SP 3 8 127.0 15. .90
* 840716 1800 SP 3 8 127.0 15. .90



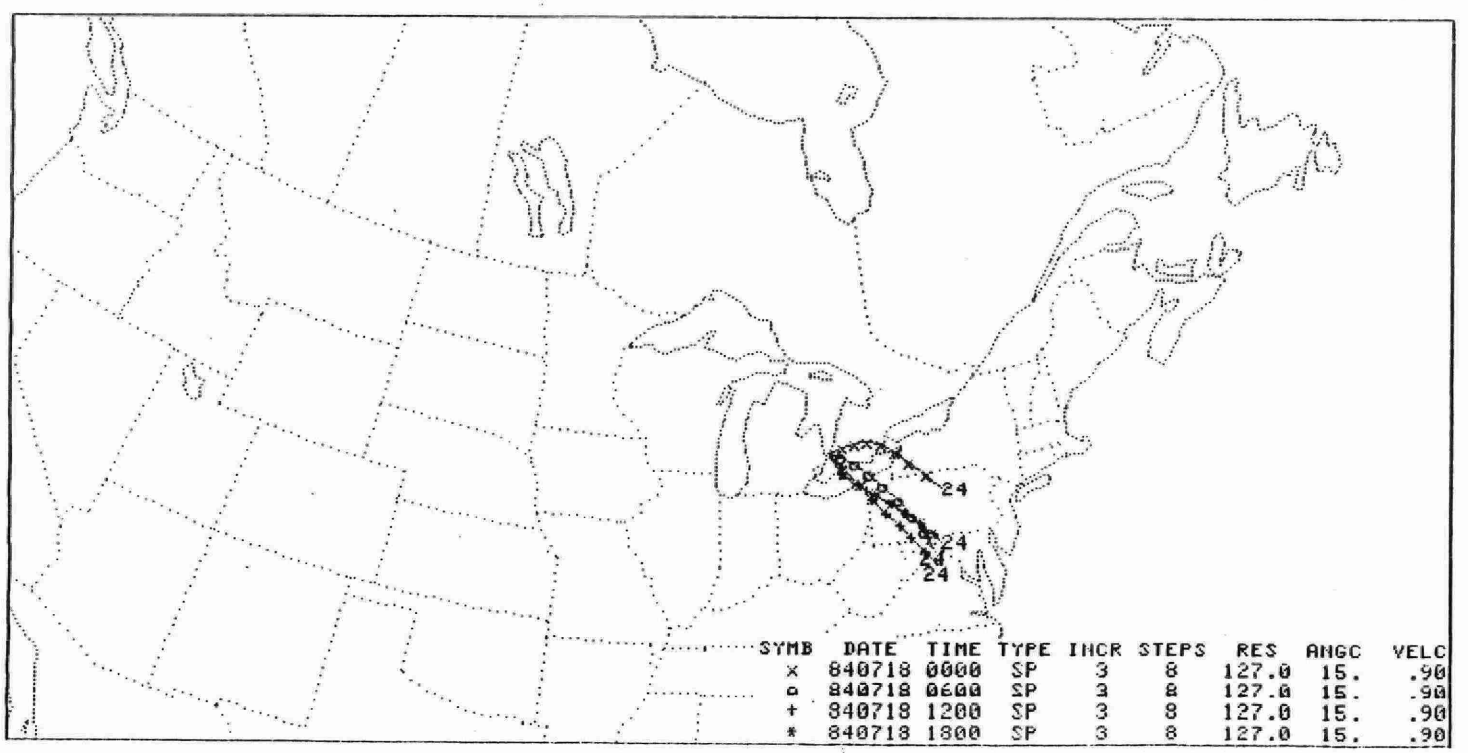
SYMB	DATE	TIME	TYPE	INCR	STEPS	RES	ANGC	VELC
×	840717	0000	SP	-3	16	127.0	15.	.90
o	840717	0600	SP	-3	16	127.0	15.	.90
+	840717	1200	SP	-3	16	127.0	15.	.90
*	840717	1800	SP	-3	16	127.0	15.	.90



SYMB	DATE	TIME	TYPE	INCR	STEPS	RES	ANGC	VELC
×	840717	0000	SP	3	8	127.0	15.	.90
o	840717	0600	SP	3	8	127.0	15.	.90
+	840717	1200	SP	3	8	127.0	15.	.90
*	840717	1800	SP	3	8	127.0	15.	.90

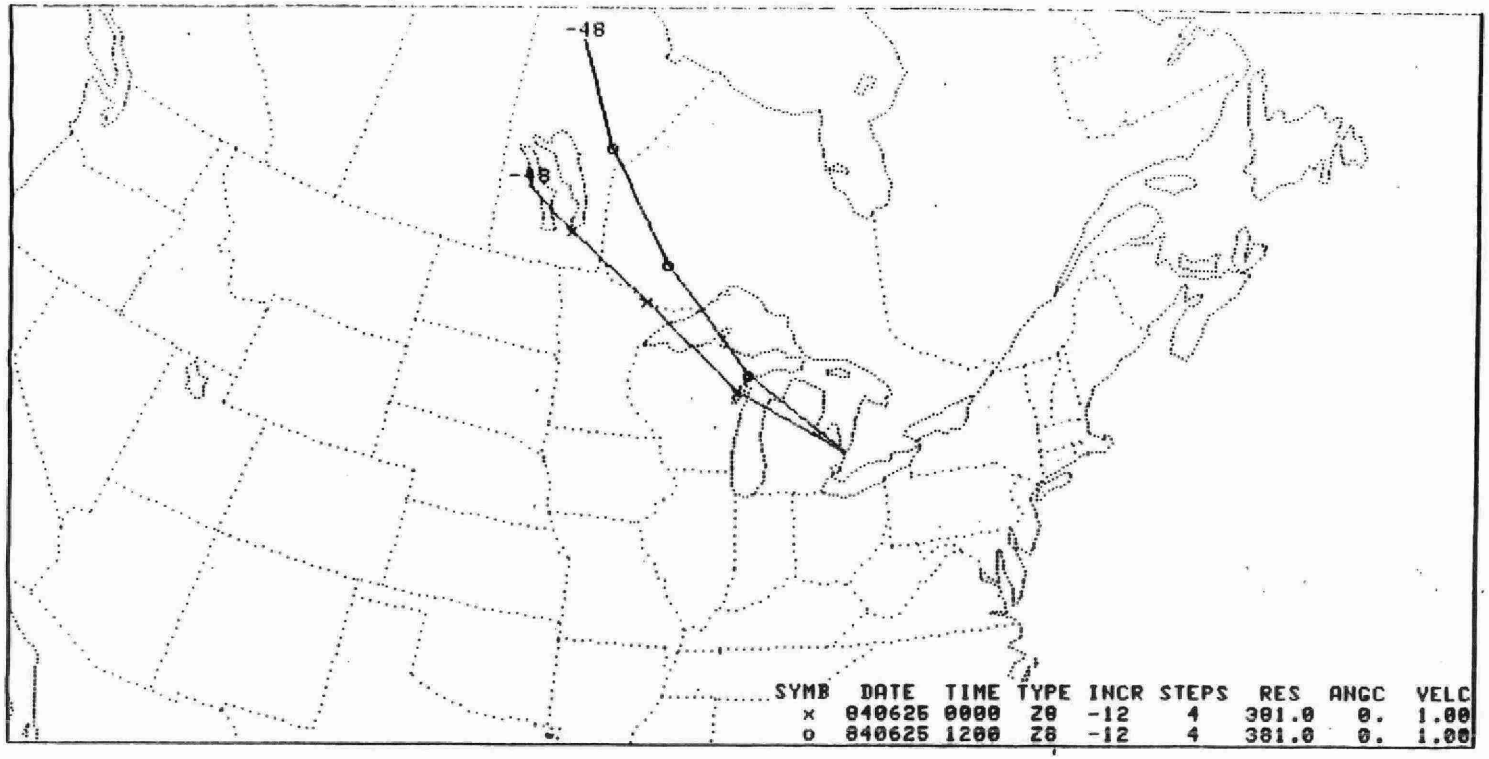


SYMB.	DATE	TIME	TYPE	INCR	STEPS	RES	ANGC	VELC
x	840718	0000	SP	-3	16	127.0	15.	.90
o	840718	0600	SP	-3	16	127.0	15.	.90
+	840718	1200	SP	-3	16	127.0	15.	.90
*	840718	1800	SP	-3	16	127.0	15.	.90

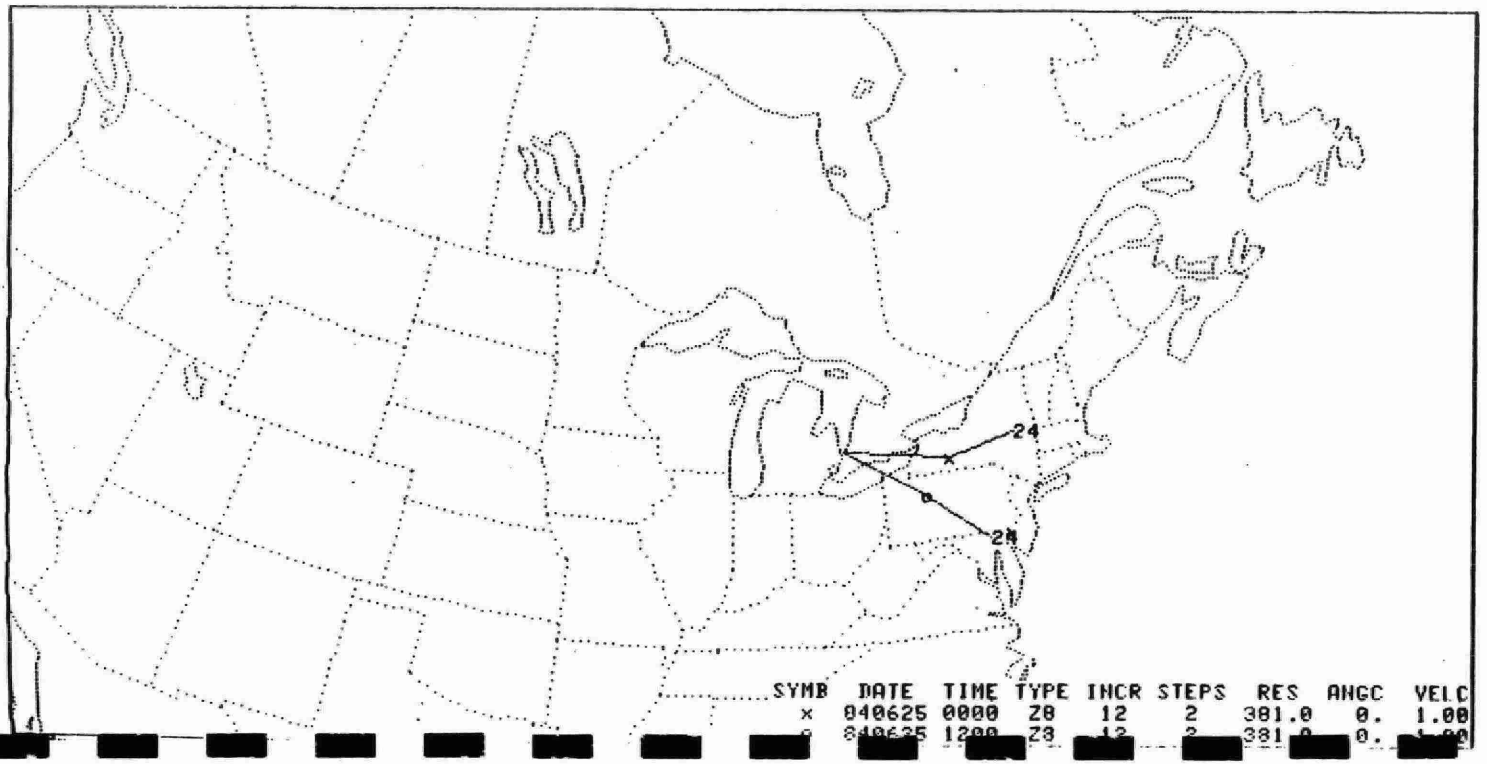


SYMB	DATE	TIME	TYPE	INCR	STEPS	RES	ANGC	VELC
x	840718	0000	SP	3	8	127.0	15.	.90
o	840718	0600	SP	3	8	127.0	15.	.90
+	840718	1200	SP	3	8	127.0	15.	.90
*	840718	1800	SP	3	8	127.0	15.	.90

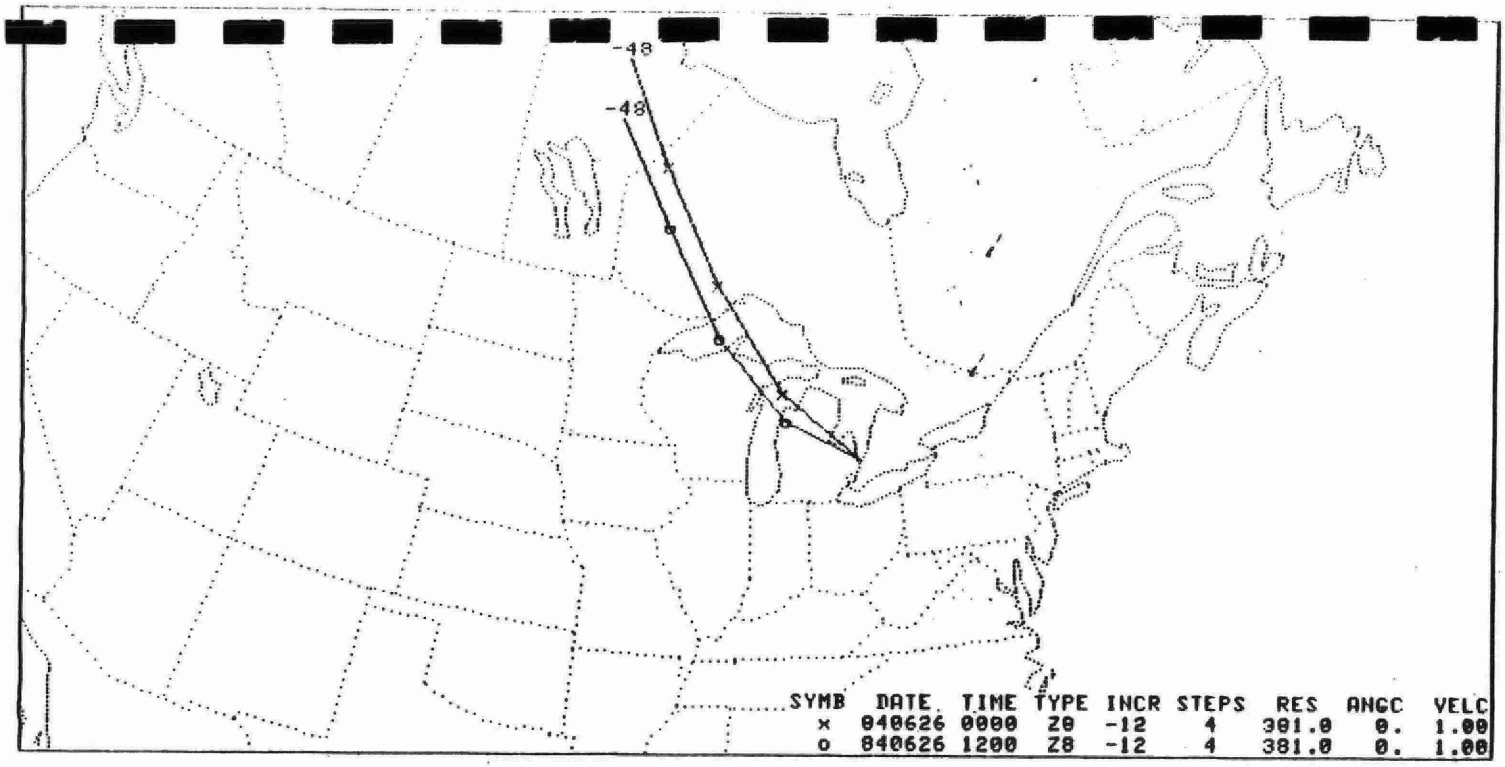
9.B FORWARD AND BACKWARD TRAJECTORY OF AIR PARCELS OVER THE SARNIA AREA FOR THE PERIOD JUNE AND JULY 1984 (850 mb)

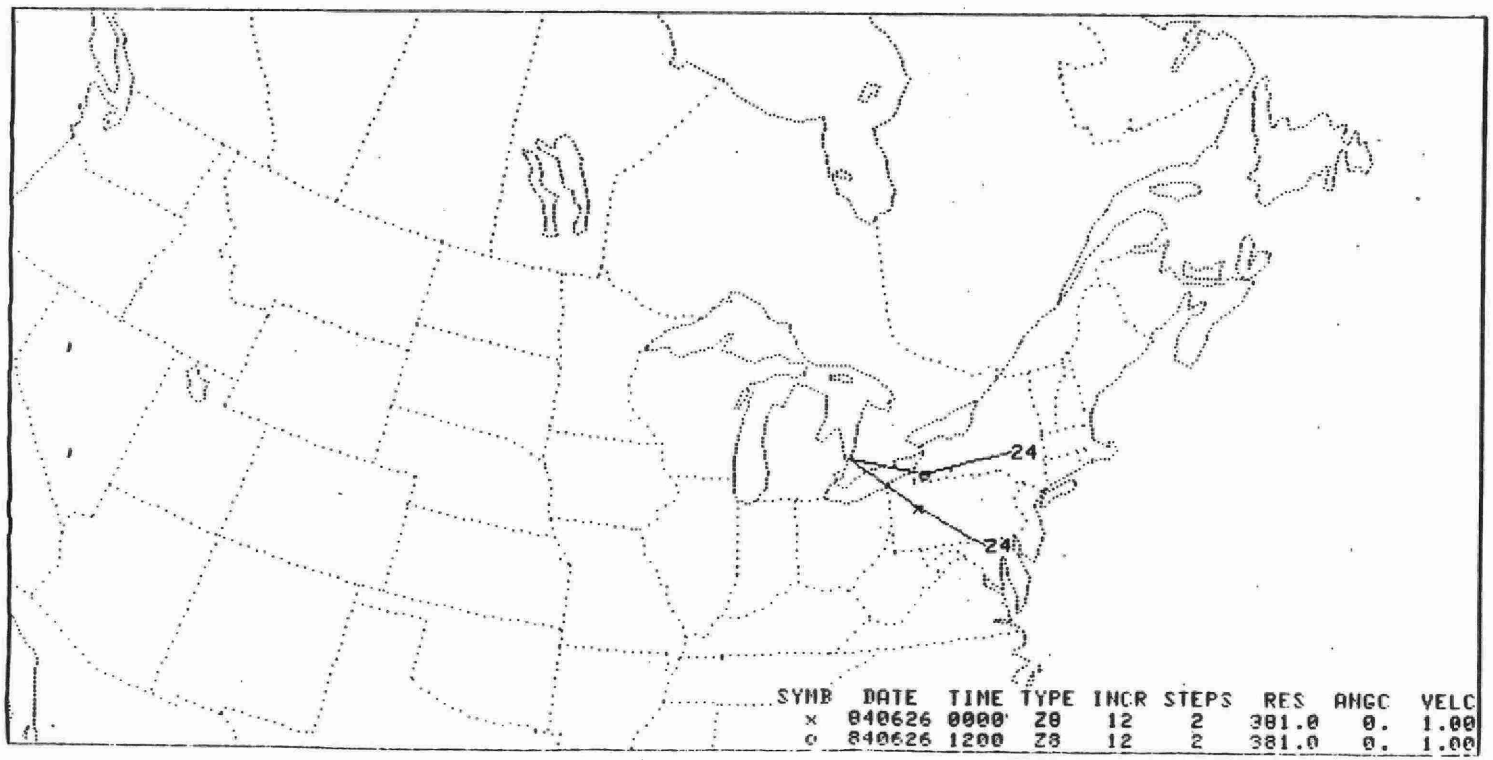


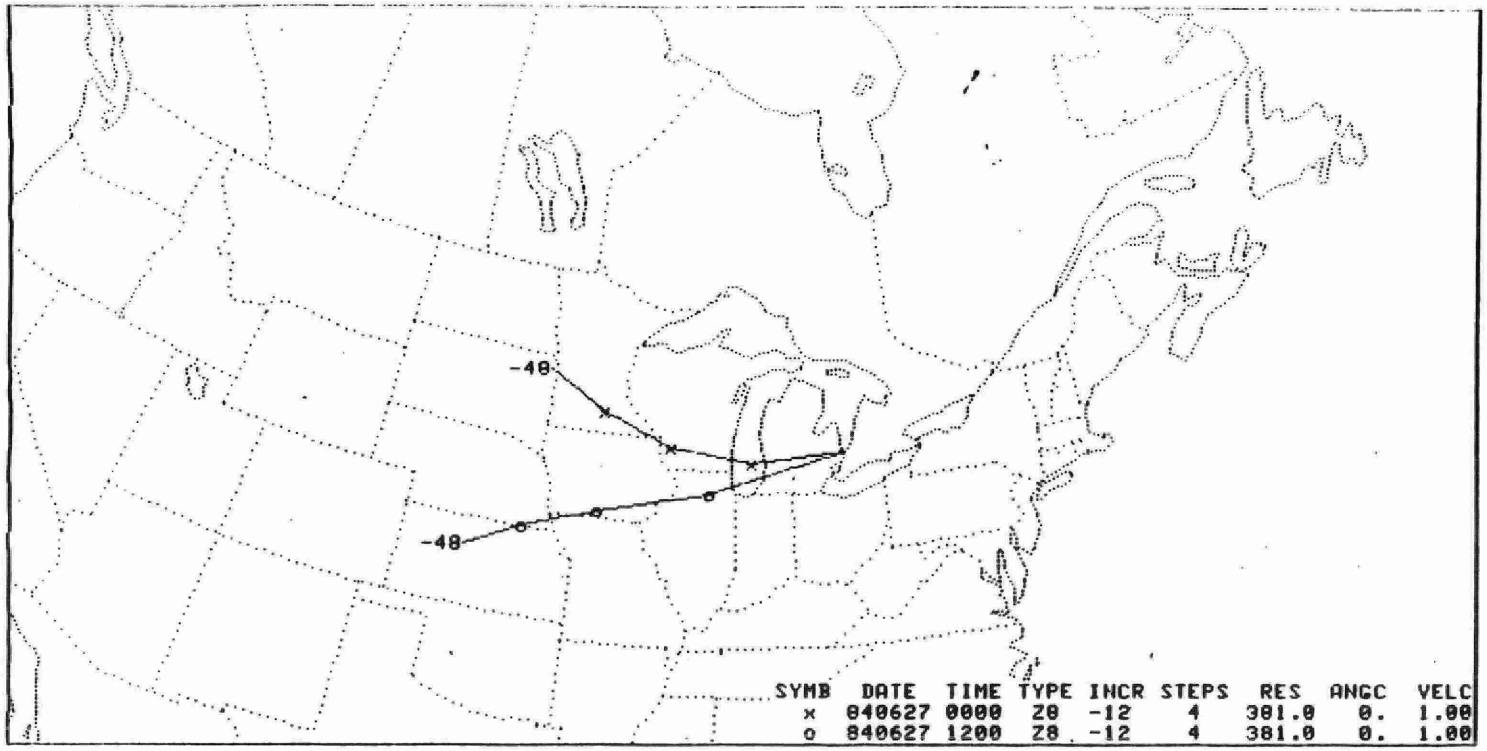
SYMB	DATE	TIME	TYPE	INCR	STEPS	RES	ANGC	VELC
x	840625	0000	Z8	-12	4	381.0	0.	1.00
o	840625	1200	Z8	-12	4	381.0	0.	1.00

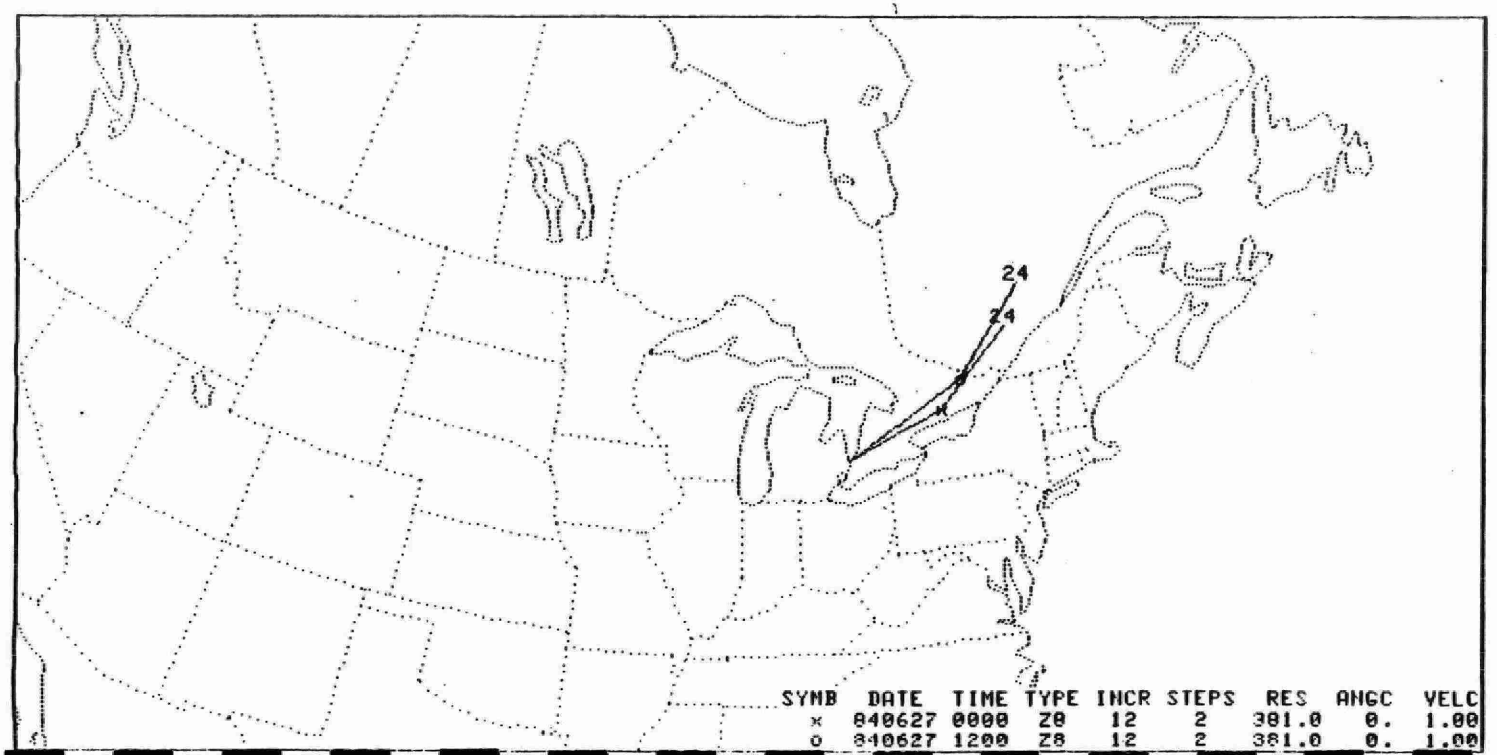


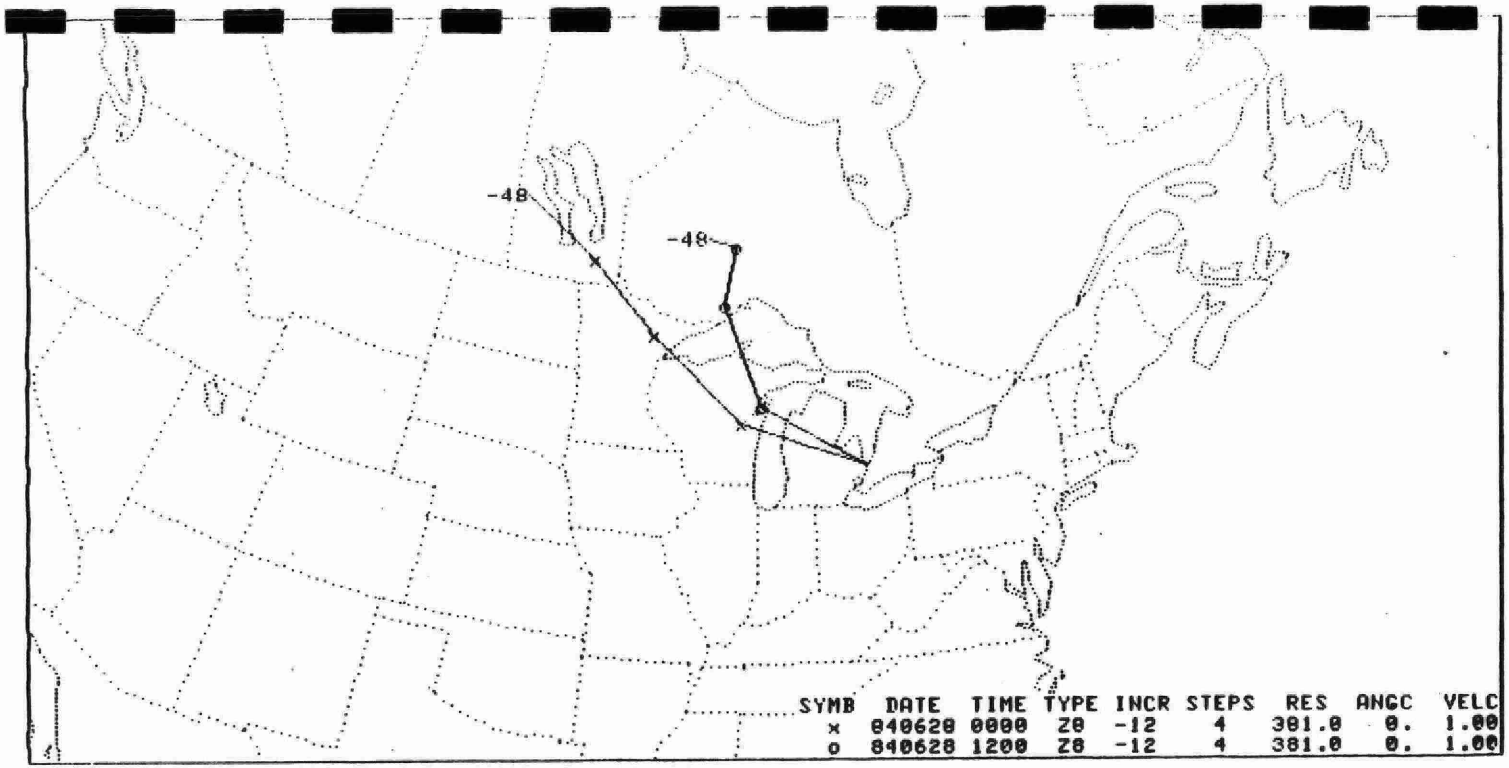
SYMB	DATE	TIME	TYPE	INCR	STEPS	RES	ANGC	VELC
x	840625	0000	Z8	12	2	381.0	0.	1.00
o	840625	1200	Z8	12	2	381.0	0.	1.00


-48
-48
SYMB DATE TIME TYPE INCR STEPS RES ANGC VELC
× 840626 0000 Z0 -12 4 381.0 0. 1.00
o 840626 1200 Z8 -12 4 381.0 0. 1.00

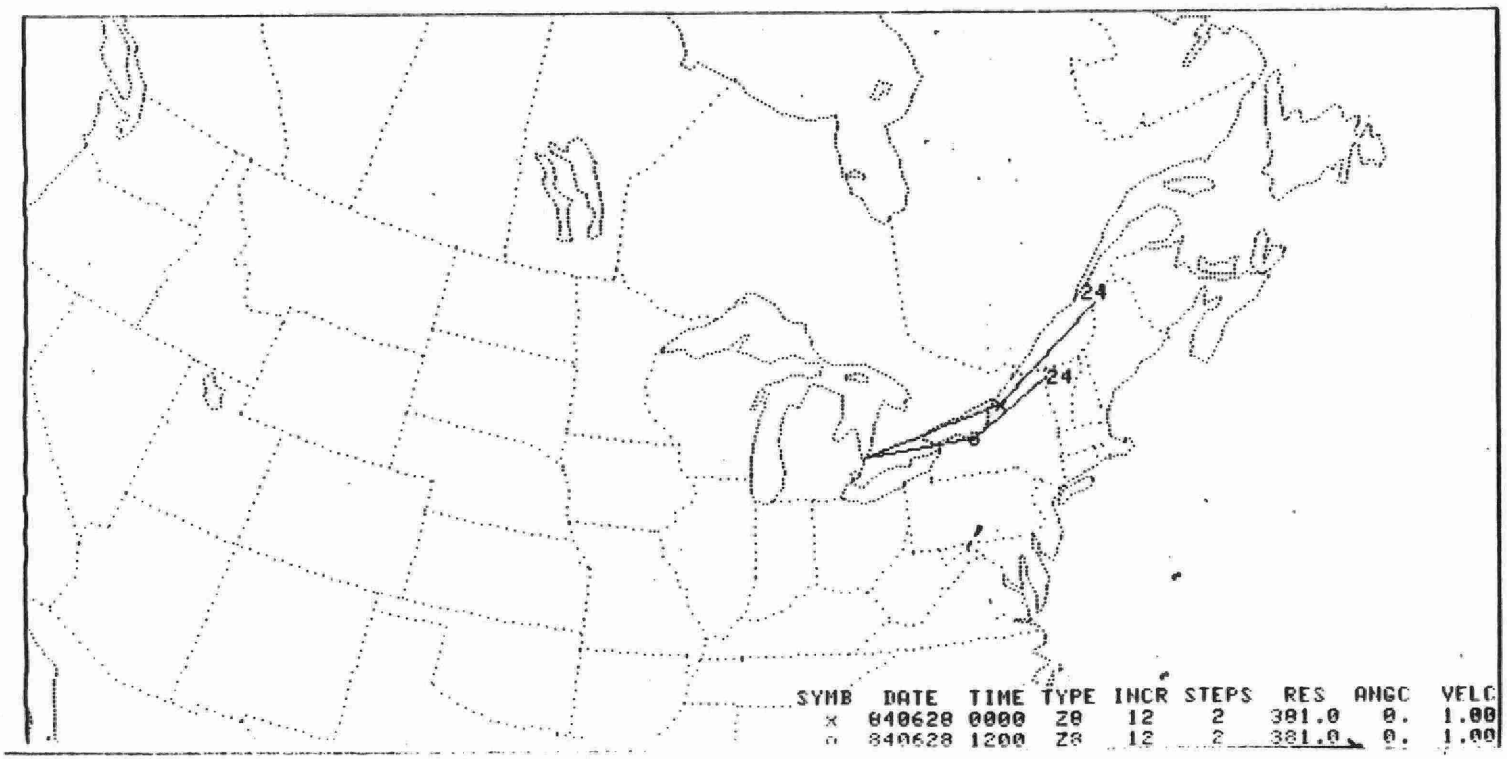

24
24
SYMB DATE TIME TYPE INCR STEPS RES ANGC VELC
× 840626 0000 Z0 12 2 381.0 0. 1.00
o 840626 1200 Z8 12 2 381.0 0. 1.00


-48
-48
SYMB DATE TIME TYPE INCR STEPS RES ANGC VELC
x 840627 0000 Z0 -12 4 381.0 0. 1.00
o 840627 1200 Z8 -12 4 381.0 0. 1.00

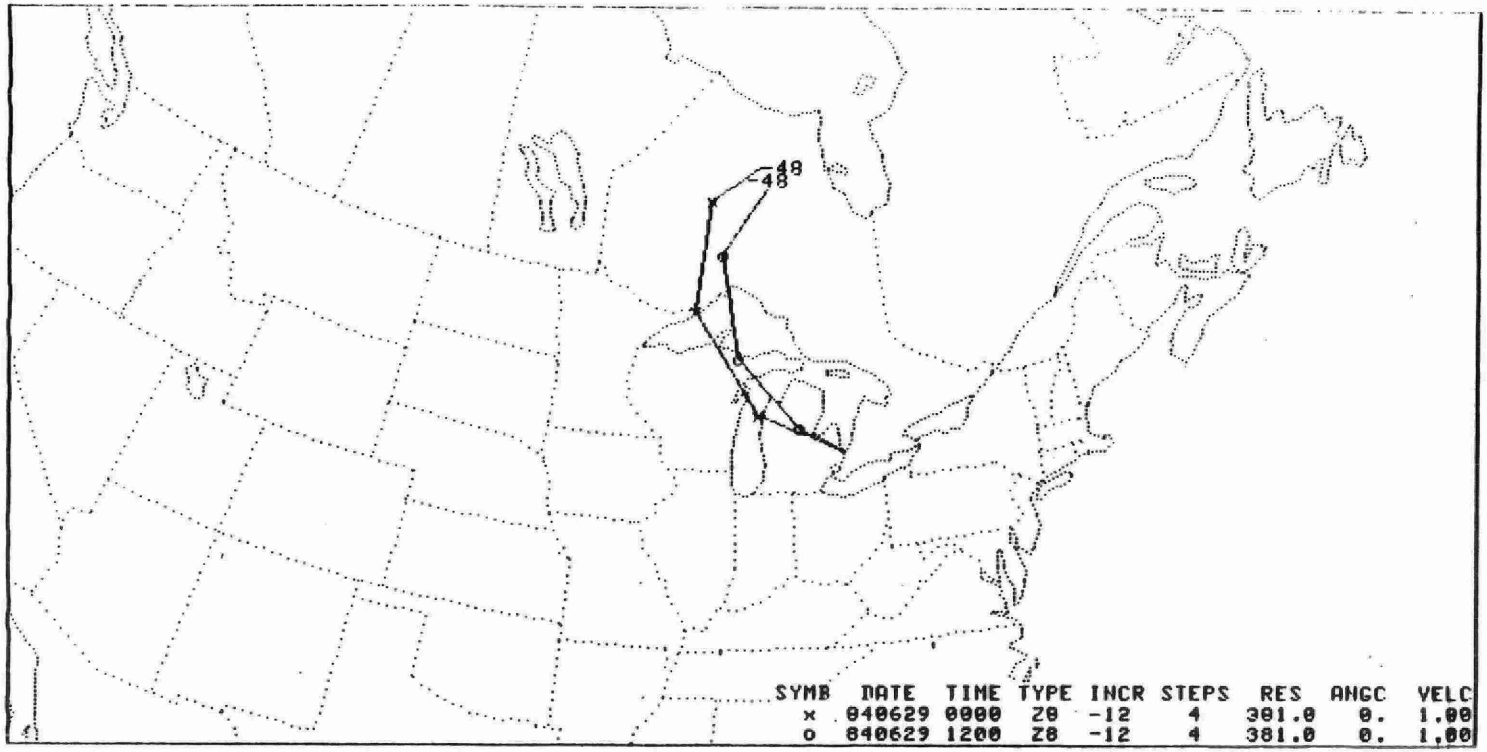

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SYMB DATE TIME TYPE INCR STEPS RES ANGC VELC
x 840627 0000 Z0 12 2 381.0 0. 1.00
o 840627 1200 Z8 12 2 381.0 0. 1.00

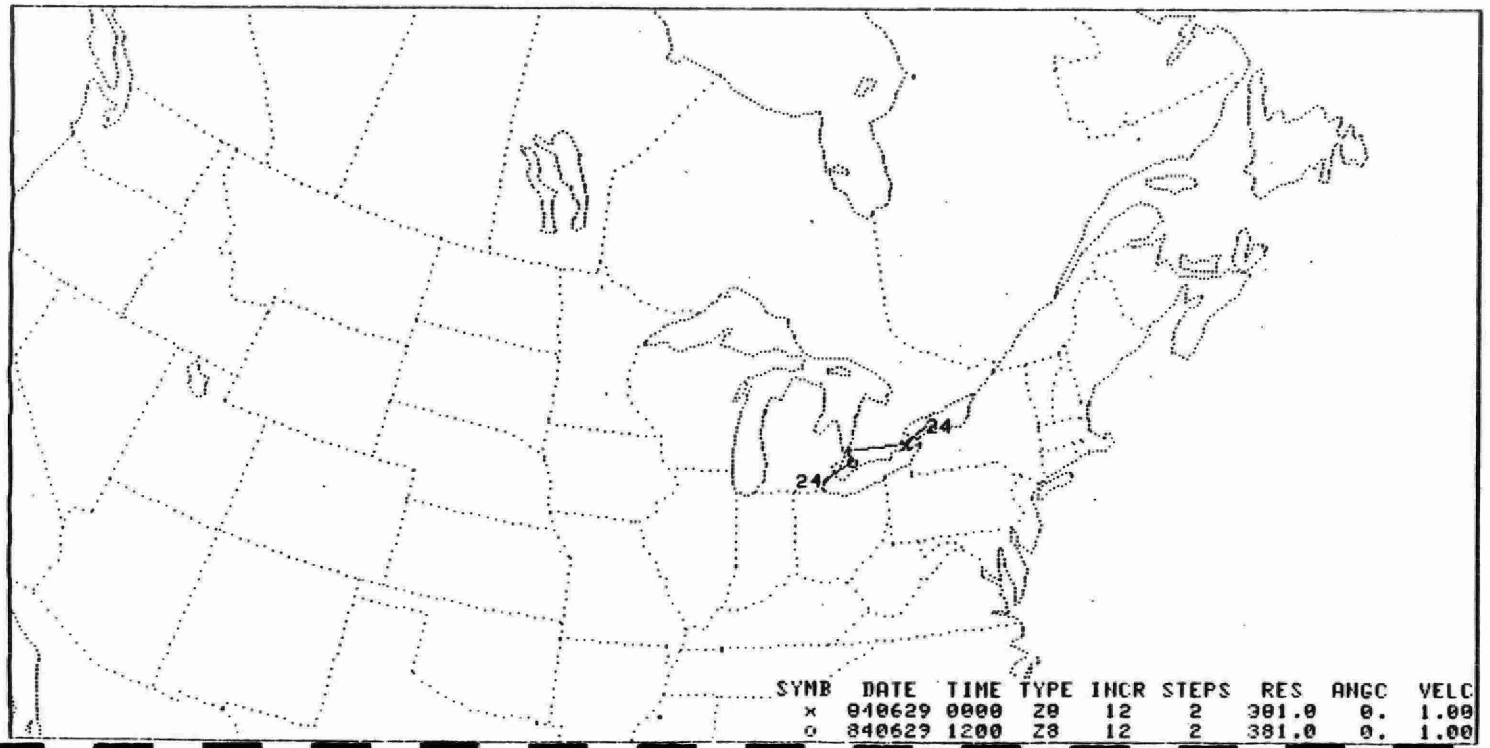


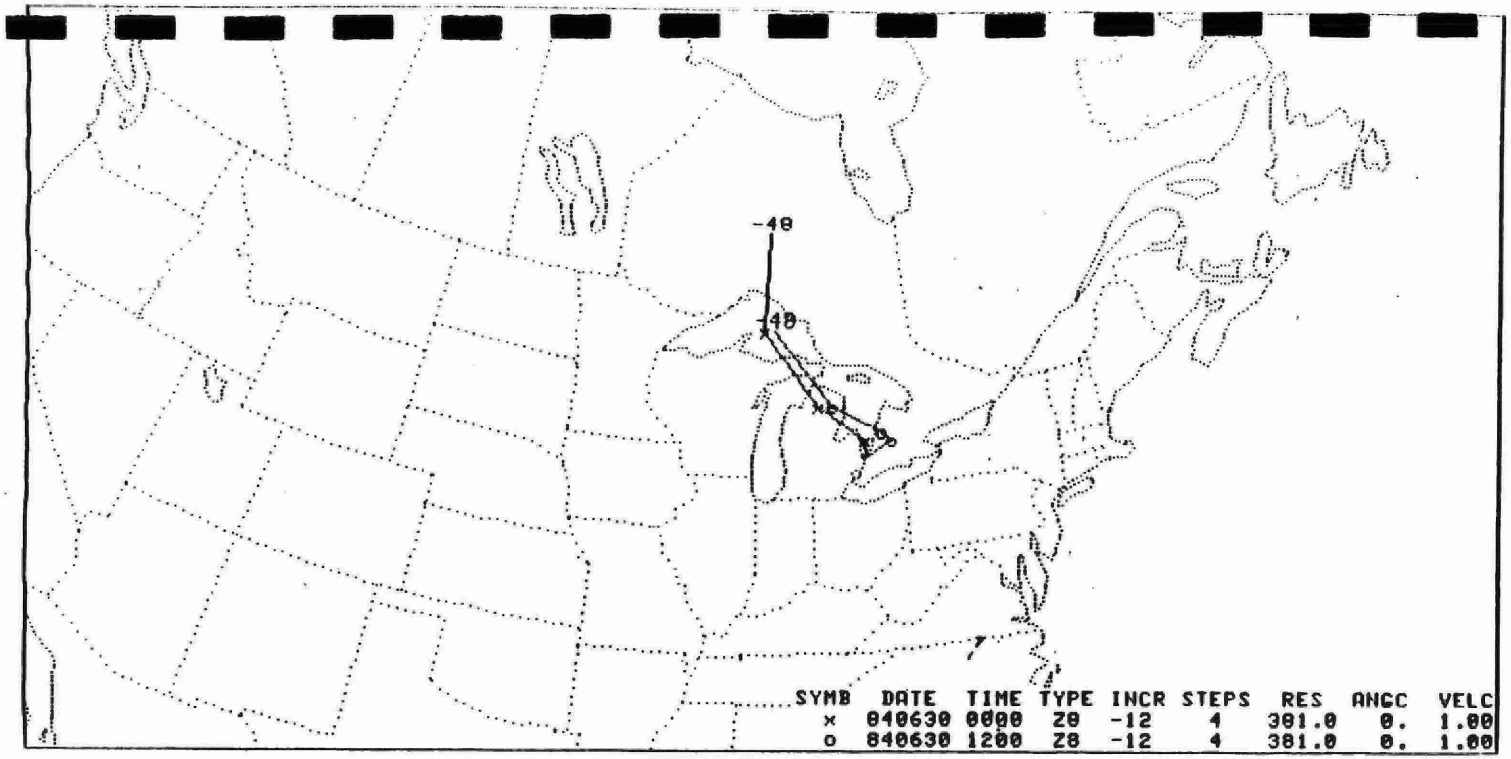
SYMB	DATE	TIME	TYPE	INCR	STEPS	RES	ANGC	VELC
×	840628	0000	Z8	-12	4	381.0	0.	1.00
o	840628	1200	Z8	-12	4	381.0	0.	1.00



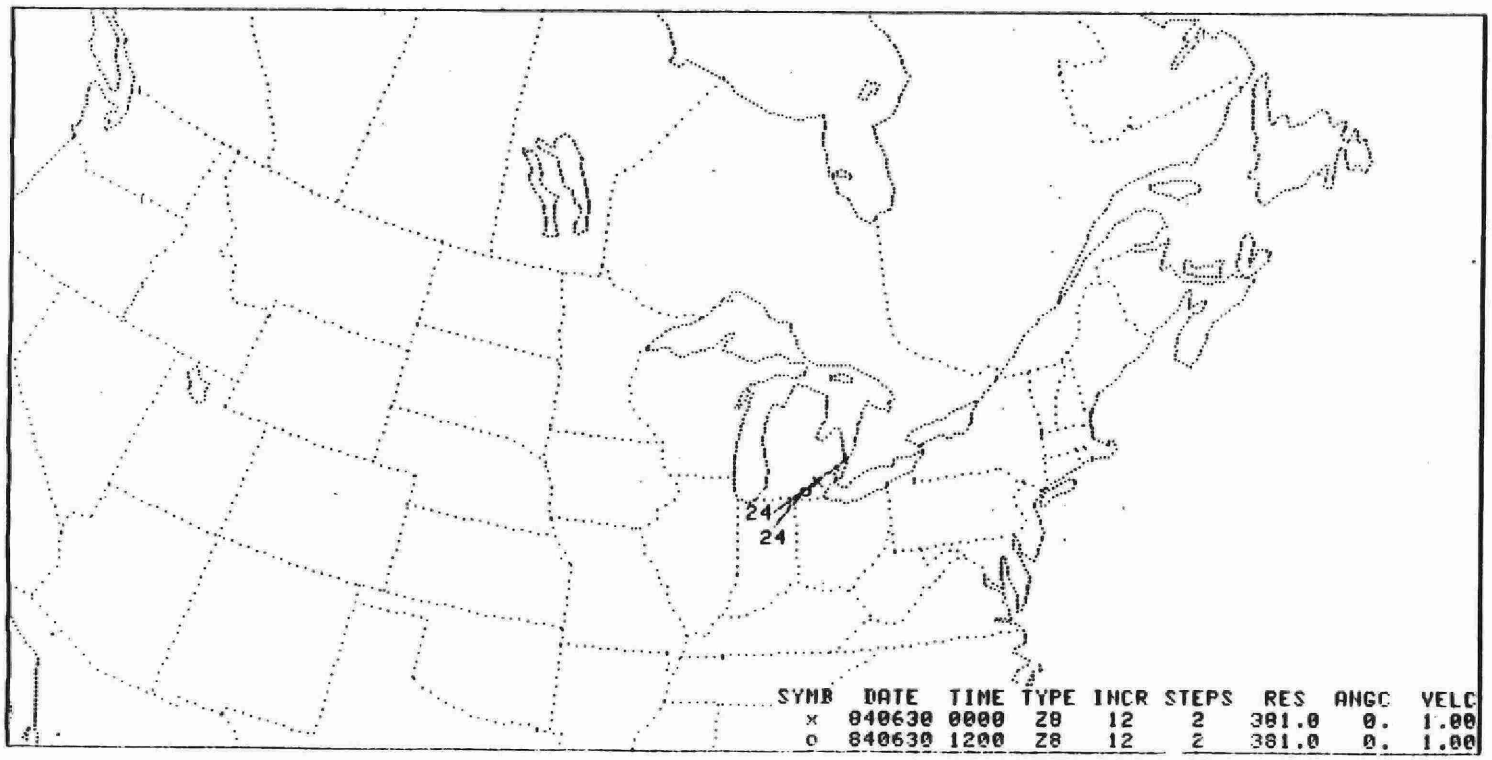
SYMB	DATE	TIME	TYPE	INCR	STEPS	RES	ANGC	VELC
×	840628	0000	Z8	12	2	381.0	0.	1.00
o	840628	1200	Z8	12	2	381.0	0.	1.00


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48
SYMB DATE TIME TYPE INCR STEPS RES ANGC VELC
× 840629 0000 Z8 -12 4 381.0 0. 1.00
o 840629 1200 Z8 -12 4 381.0 0. 1.00

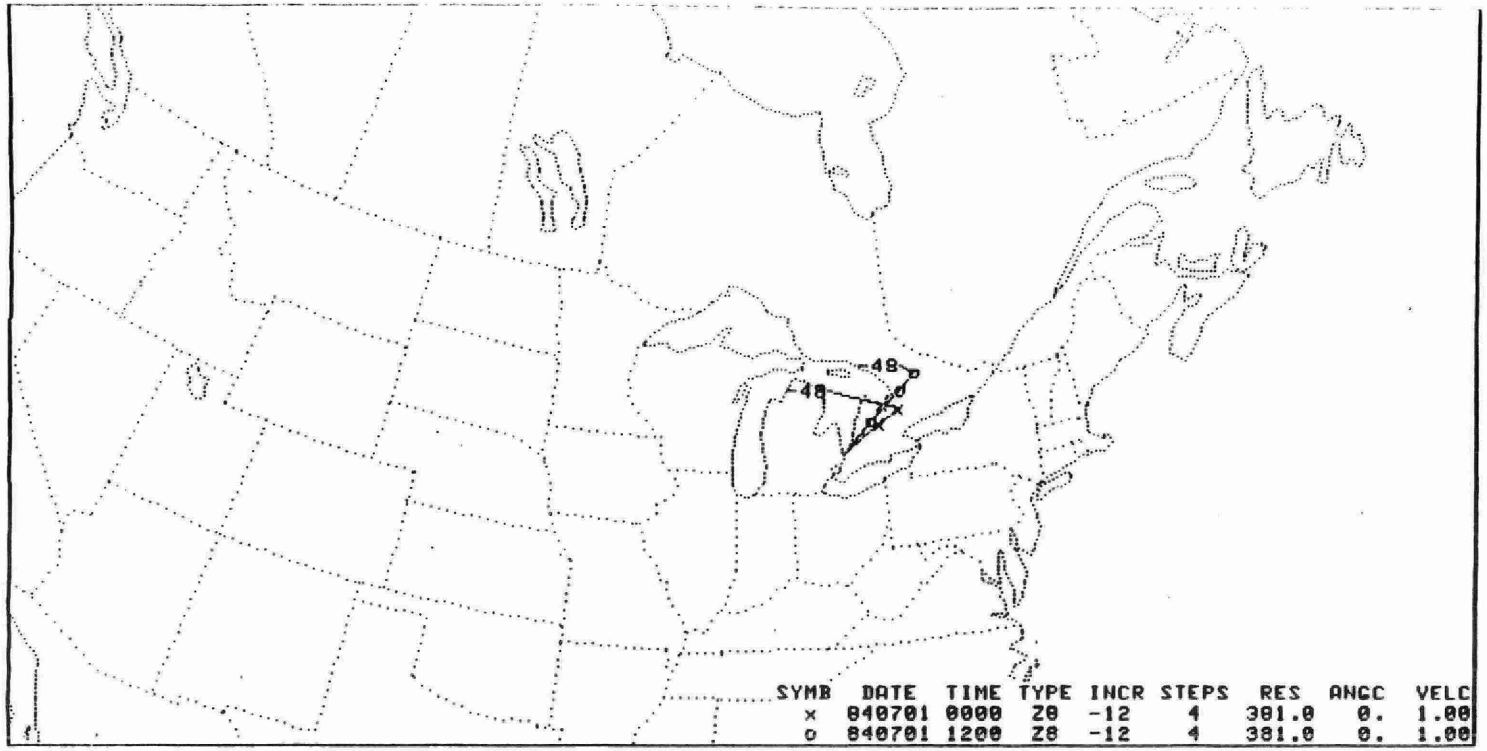

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24
SYMB DATE TIME TYPE INCR STEPS RES ANGC VELC
× 840629 0000 Z8 12 2 381.0 0. 1.00
o 840629 1200 Z8 12 2 381.0 0. 1.00



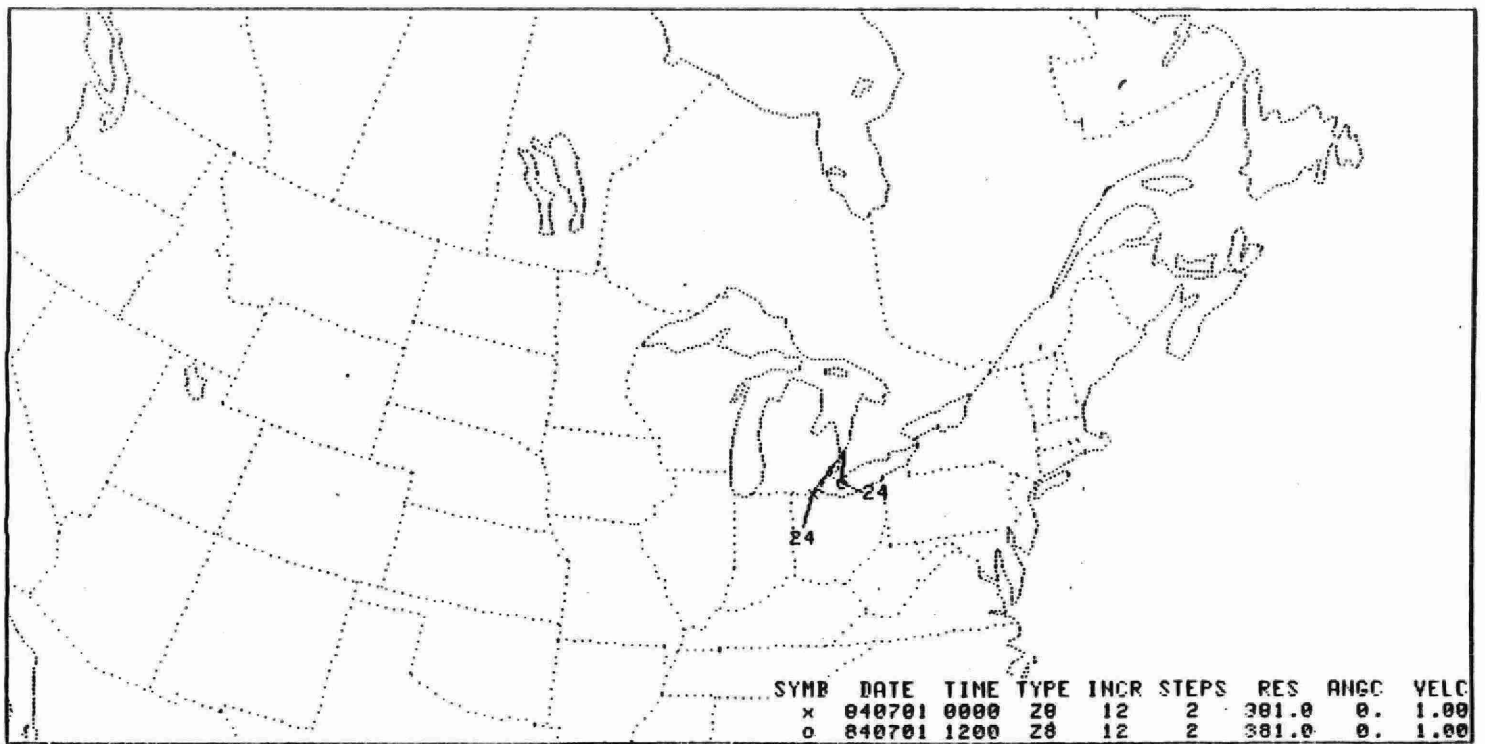
SYMB	DATE	TIME	TYPE	INCR	STEPS	RES	ANGC	VELC
×	840630	0000	Z8	-12	4	381.0	0.	1.00
o	840630	1200	Z8	-12	4	381.0	0.	1.00



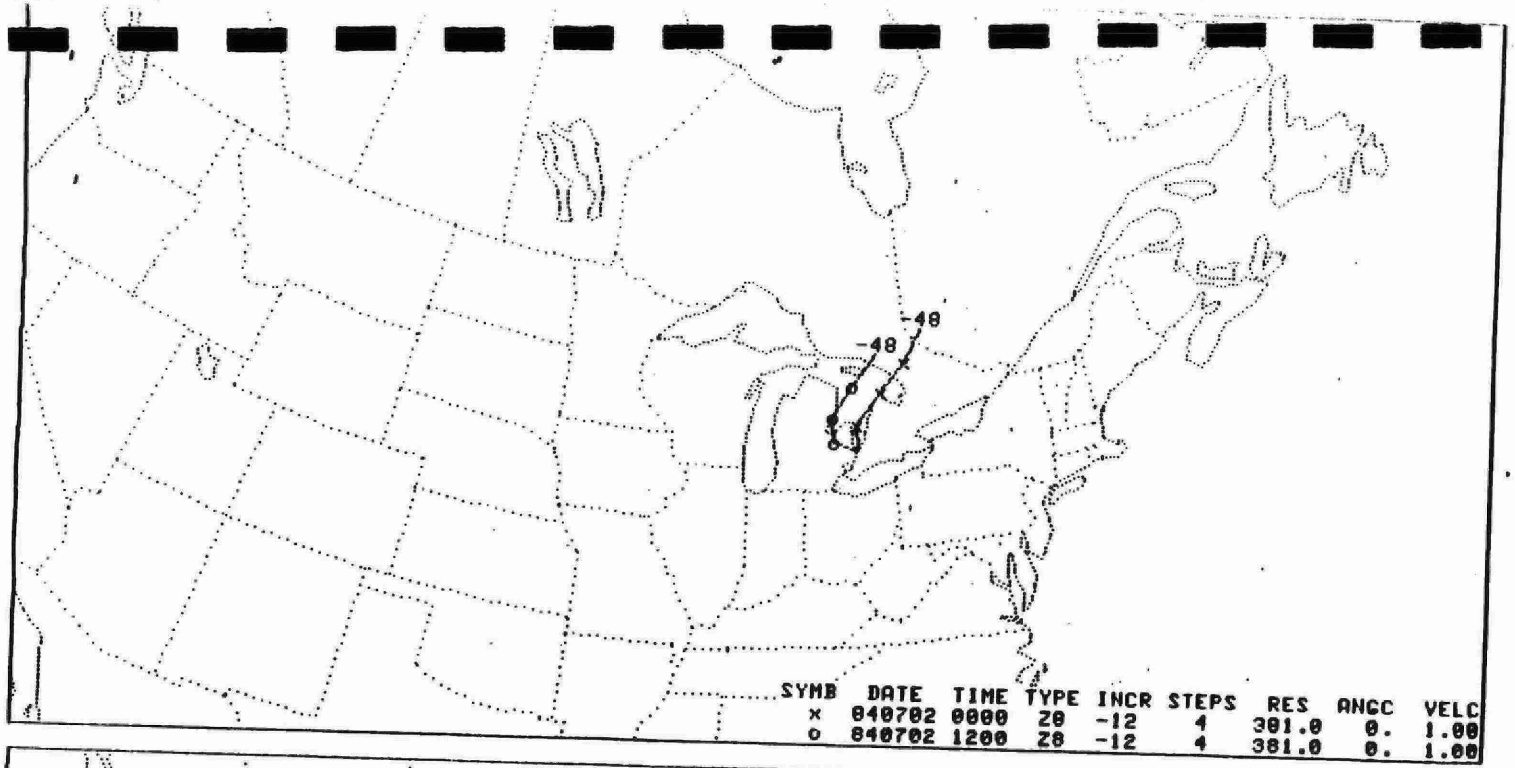
SYMB	DATE	TIME	TYPE	INCR	STEPS	RES	ANGC	VELC
×	840630	0000	Z8	12	2	381.0	0.	1.00
o	840630	1200	Z8	12	2	381.0	0.	1.00



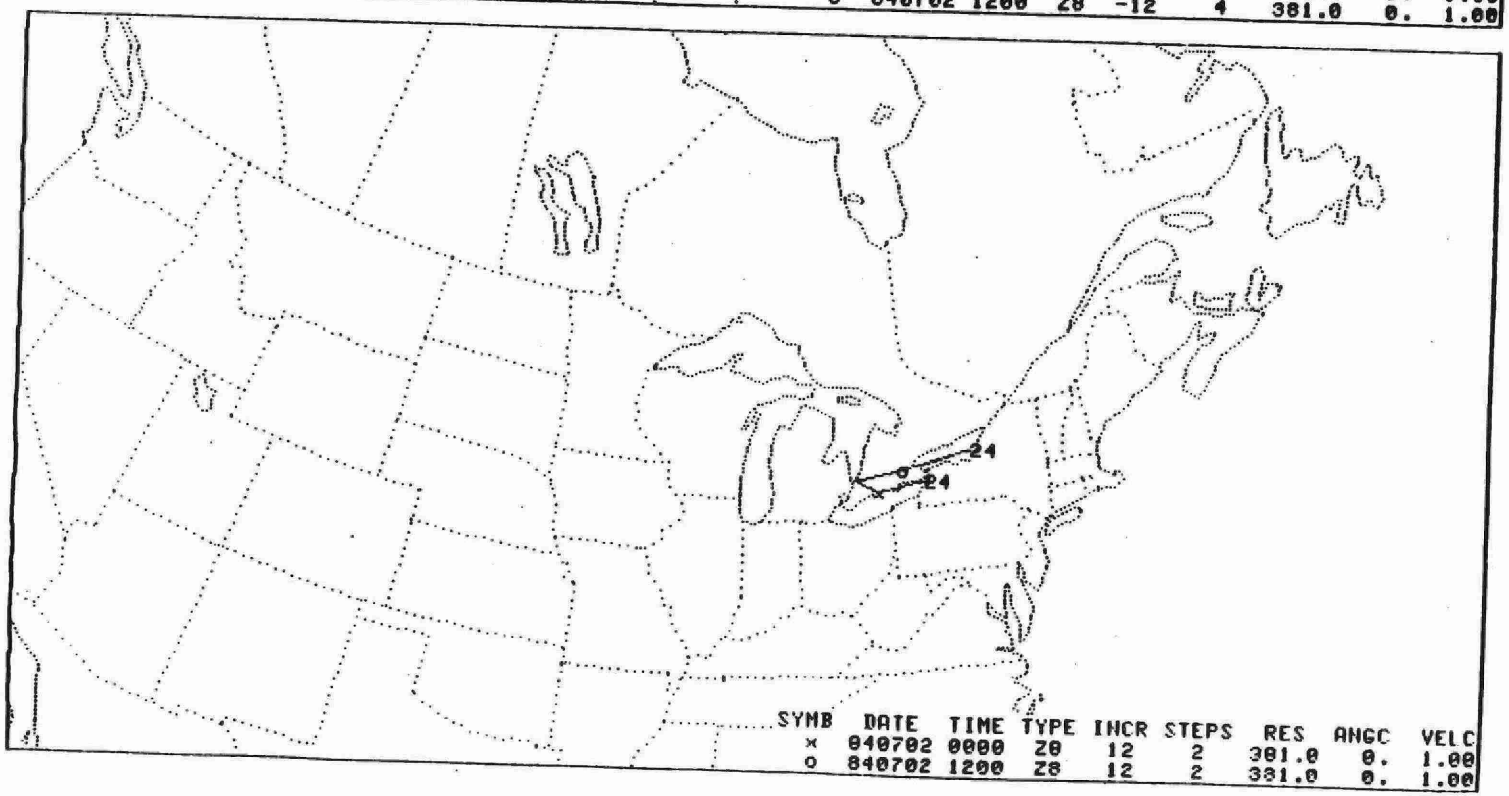
SYMB	DATE	TIME	TYPE	INCR	STEPS	RES	ANGC	VELC
x	840701	0000	Z8	-12	4	381.0	0.	1.00
o	840701	1200	Z8	-12	4	381.0	0.	1.00



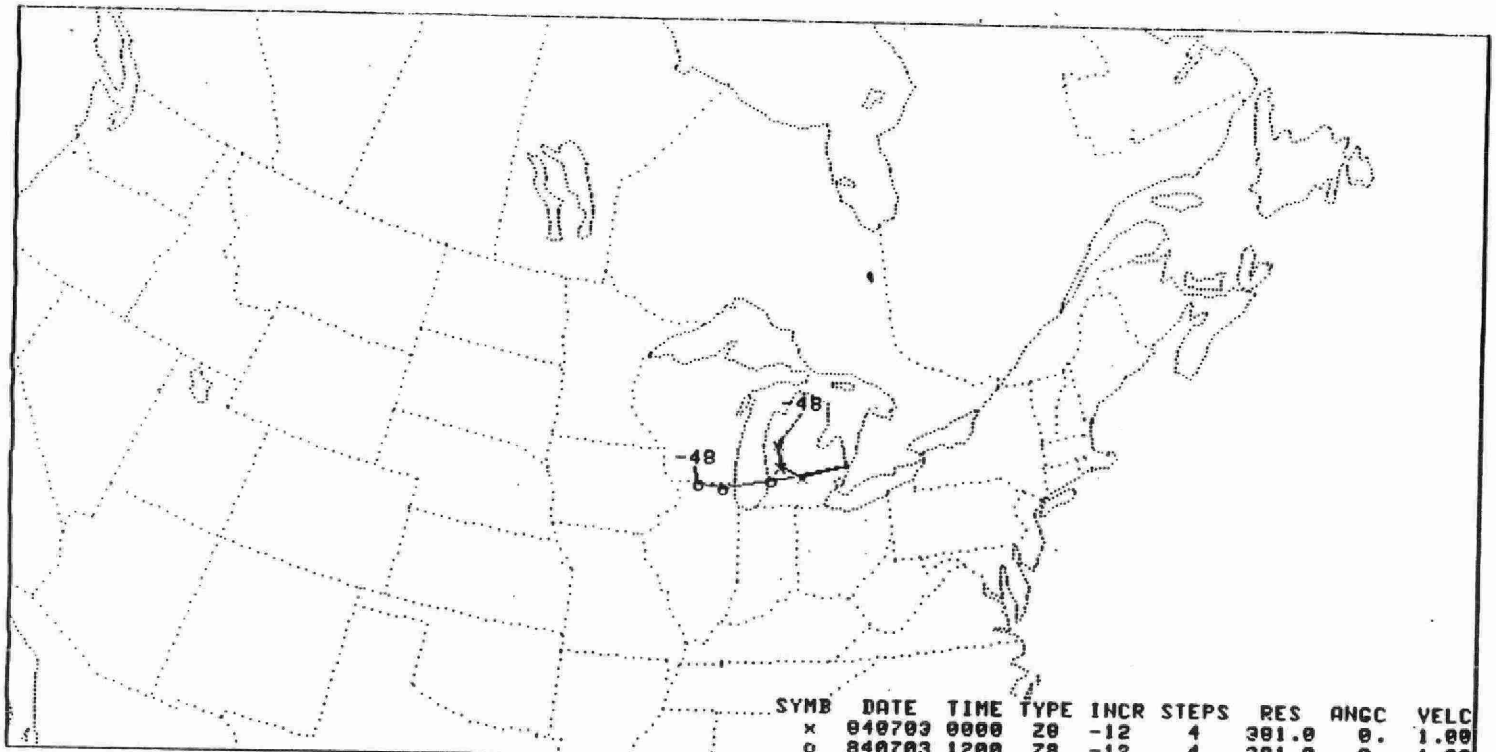
SYMB	DATE	TIME	TYPE	INCR	STEPS	RES	ANGC	VELC
x	840701	0000	Z8	12	2	381.0	0.	1.00
o	840701	1200	Z8	12	2	381.0	0.	1.00



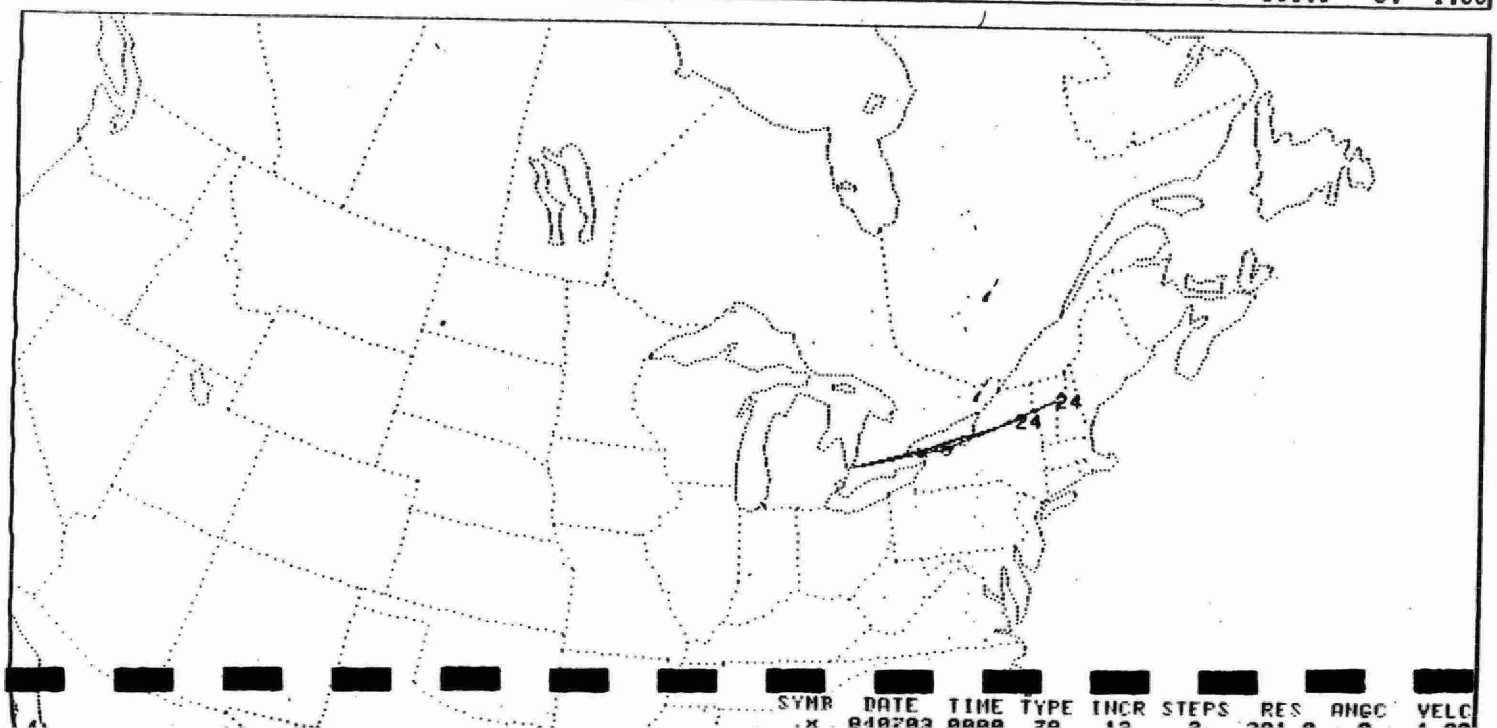
SYMB	DATE	TIME	TYPE	INCR	STEPS	RES	ANGC	VELC
x	840702	0000	Z0	-12	4	381.0	0.	1.00
o	840702	1200	Z0	-12	4	381.0	0.	1.00



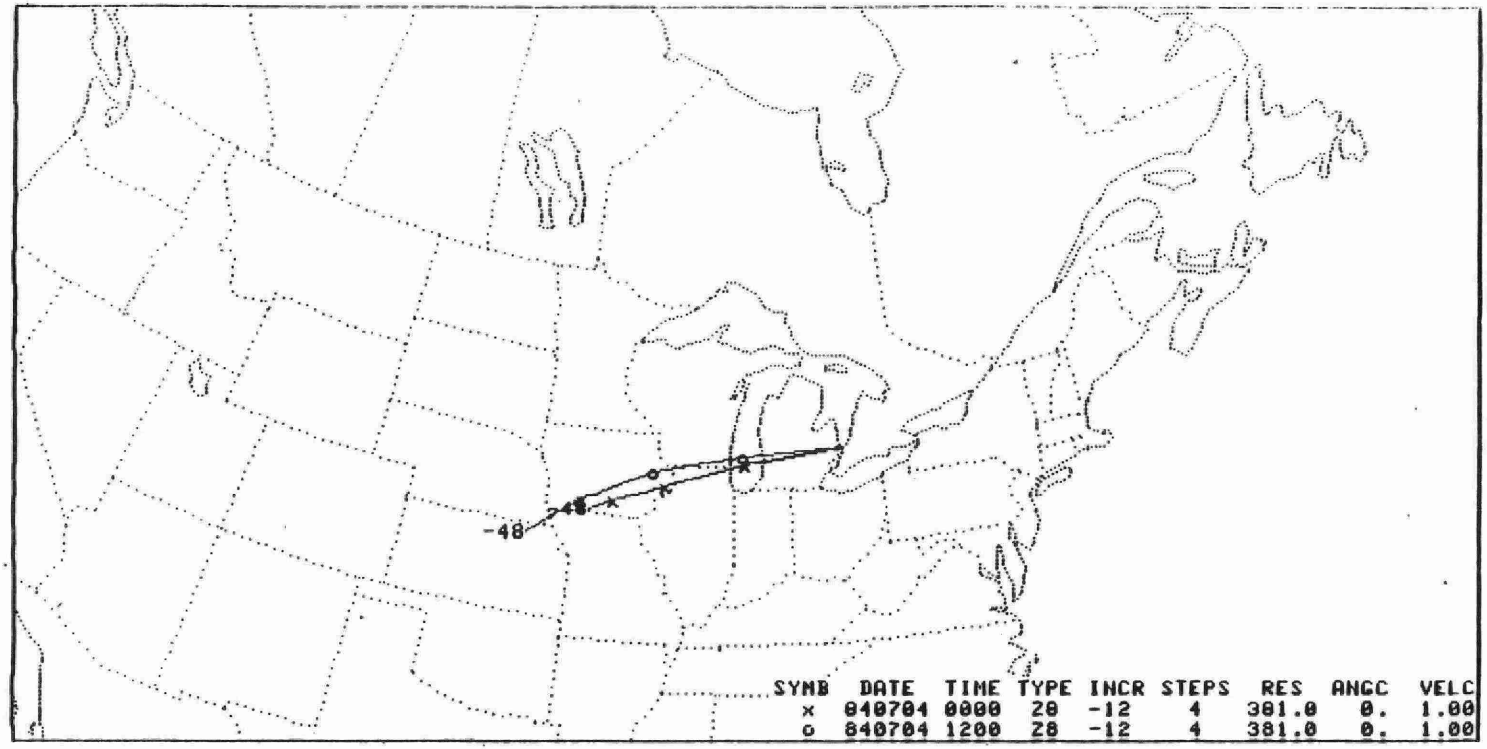
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o	840702	1200	Z0	12	2	381.0	0.	1.00



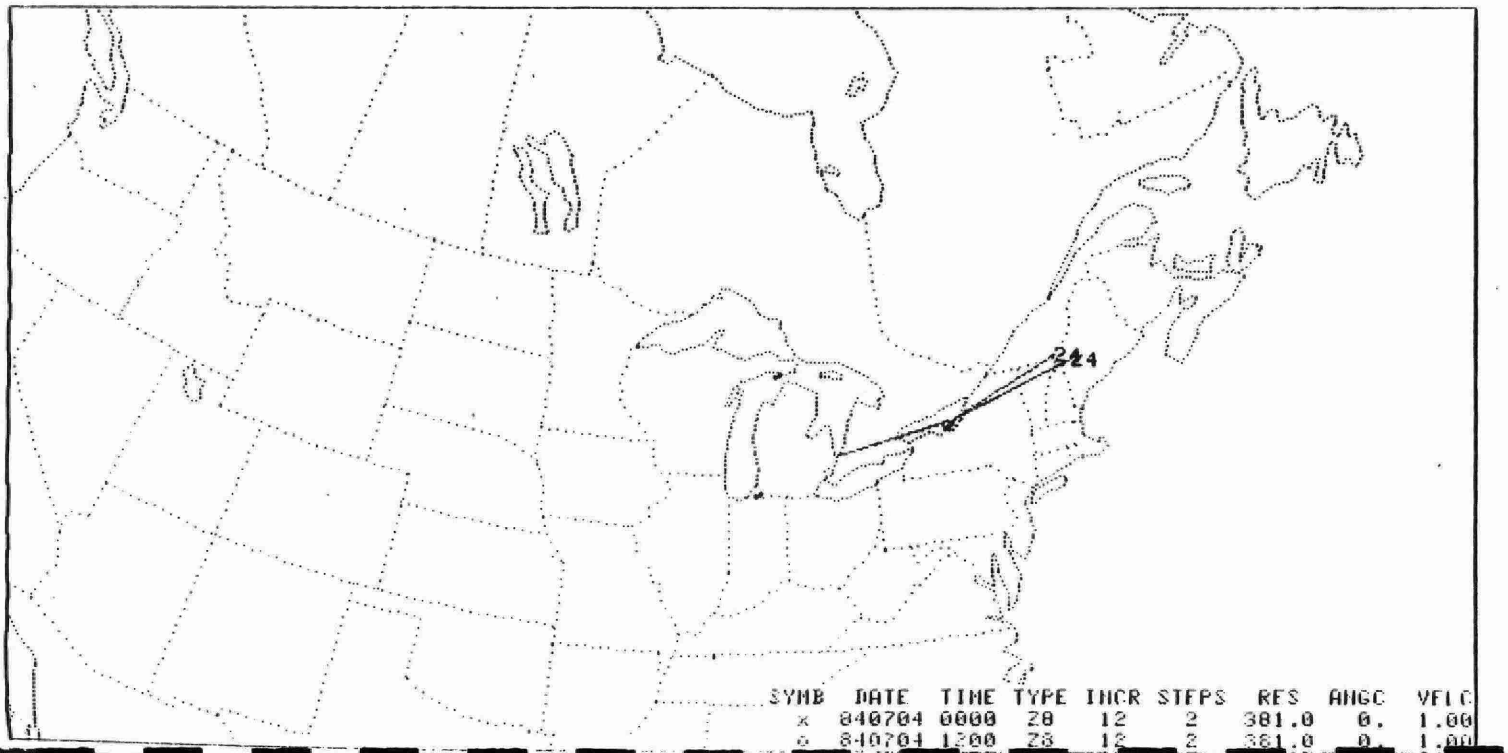
SYMB	DATE	TIME	TYPE	INCR	STEPS	RES	ANGC	VELC
×	840703	0000	Z8	-12	4	381.0	0.	1.00
o	840703	1200	Z8	-12	4	381.0	0.	1.00



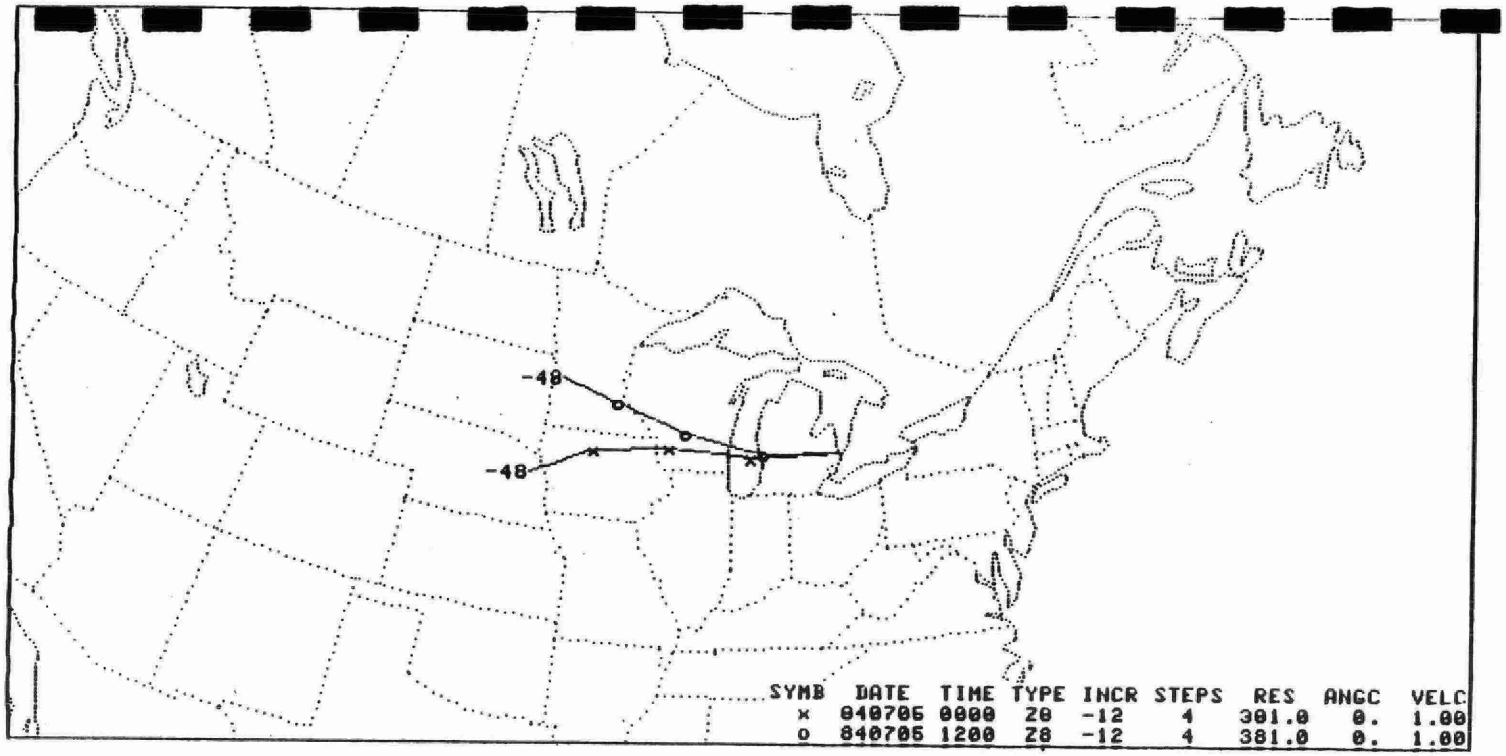
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×	840703	0000	Z8	12	2	381.0	0.	1.00



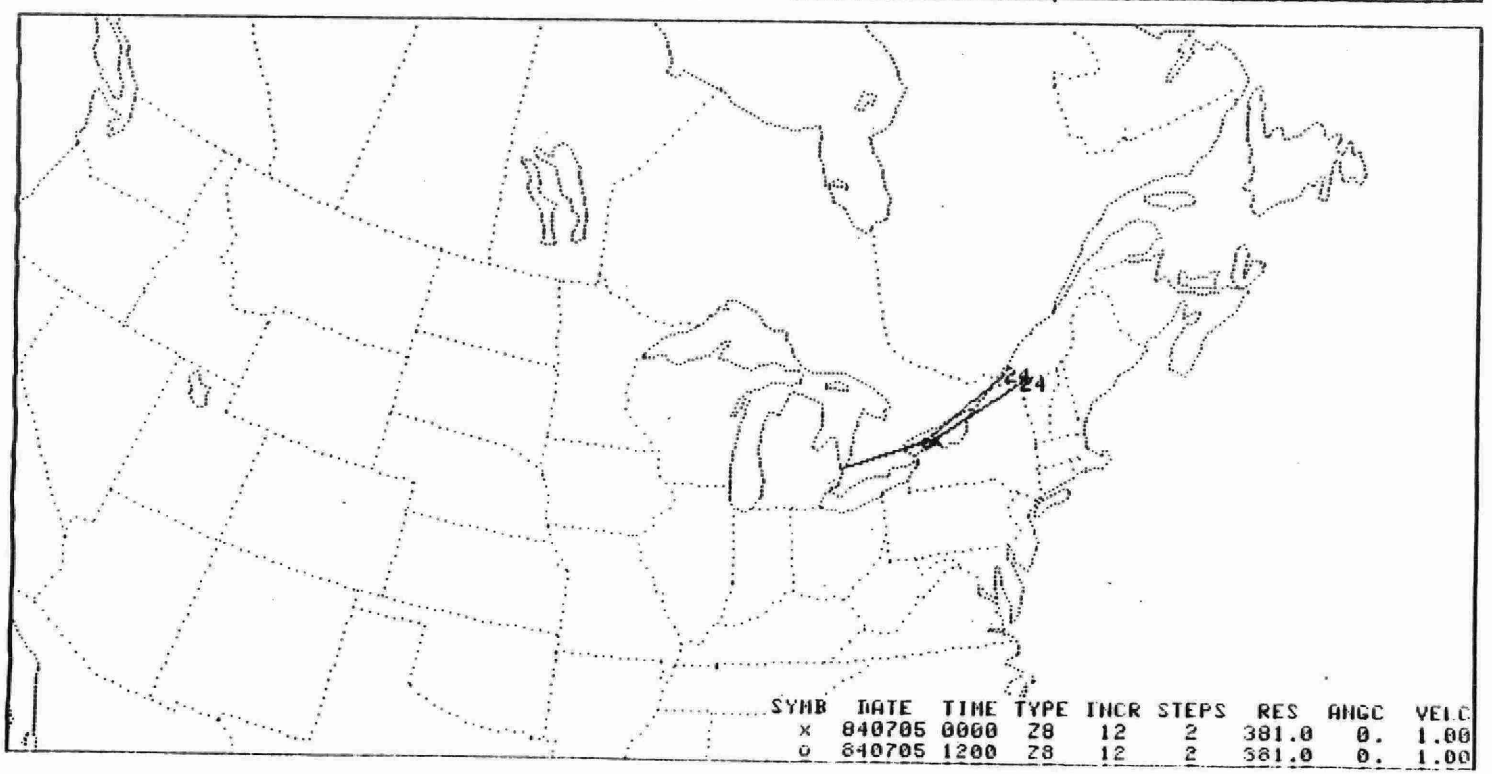
SYMB	DATE	TIME	TYPE	INCR	STEPS	RES	ANGC	VELC
x	840704	0000	Z8	-12	4	381.0	0.	1.00
o	840704	1200	Z8	-12	4	381.0	0.	1.00



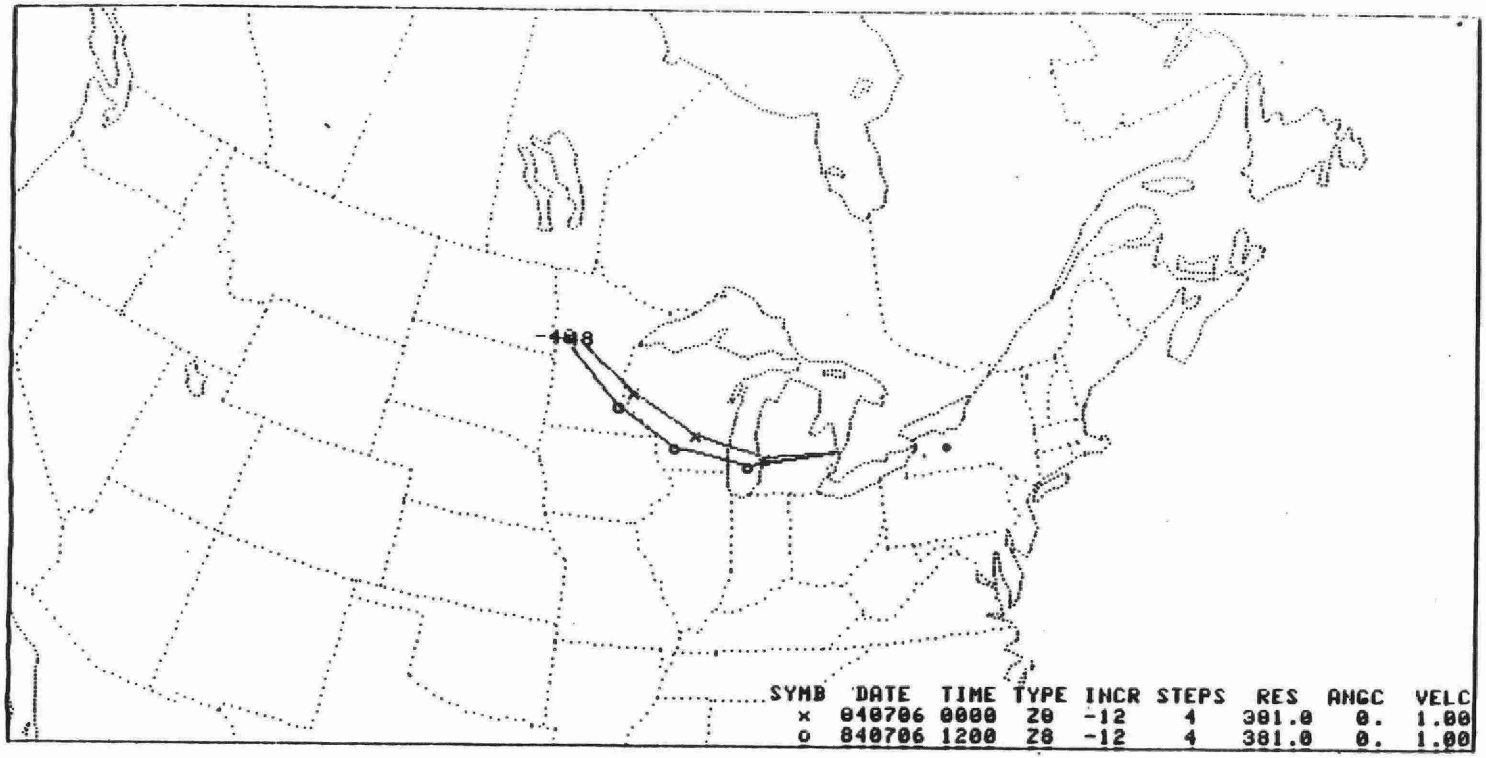
SYMB	DATE	TIME	TYPE	INCR	STEPS	RES	ANGC	VELC
x	840704	0000	Z8	12	2	381.0	0.	1.00
o	840704	1200	Z8	12	2	381.0	0.	1.00

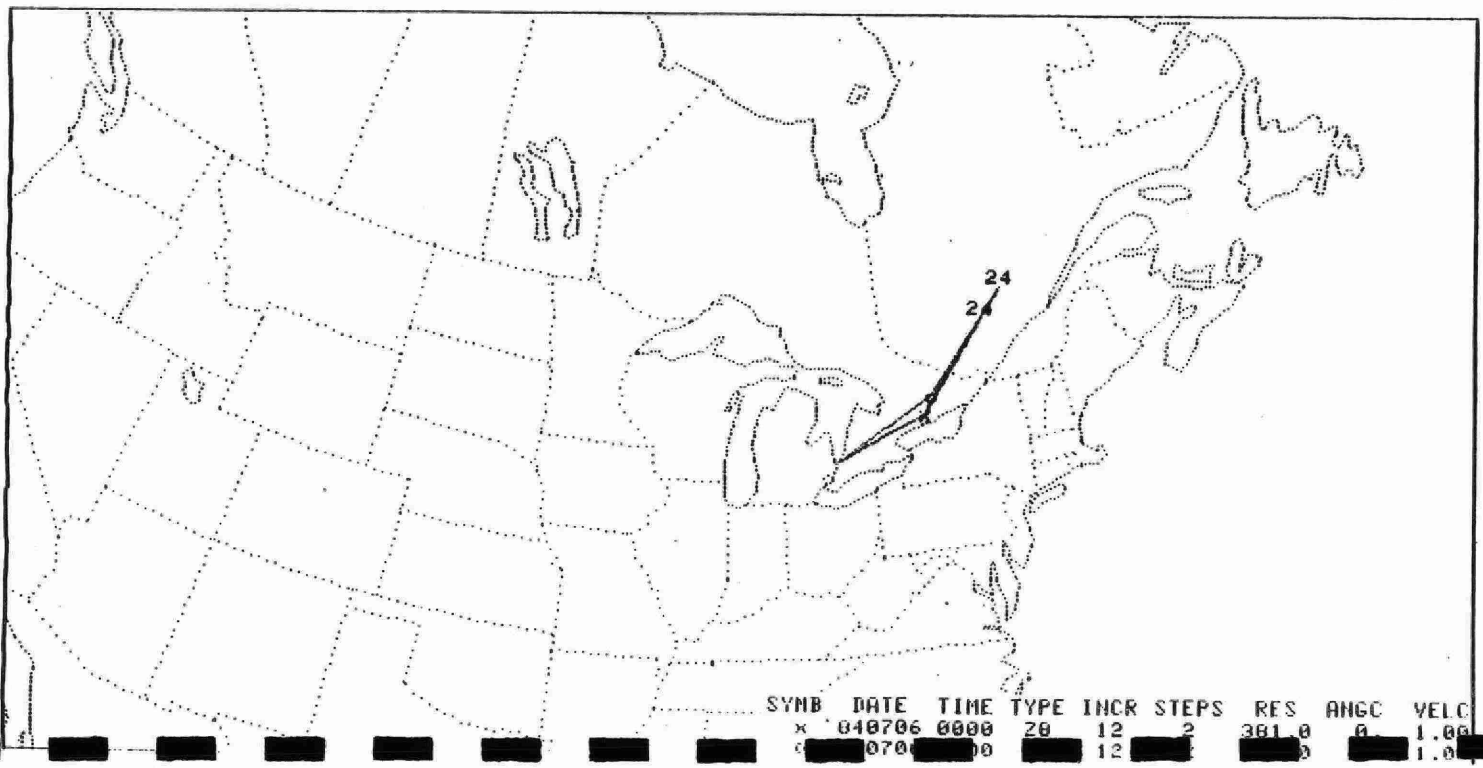


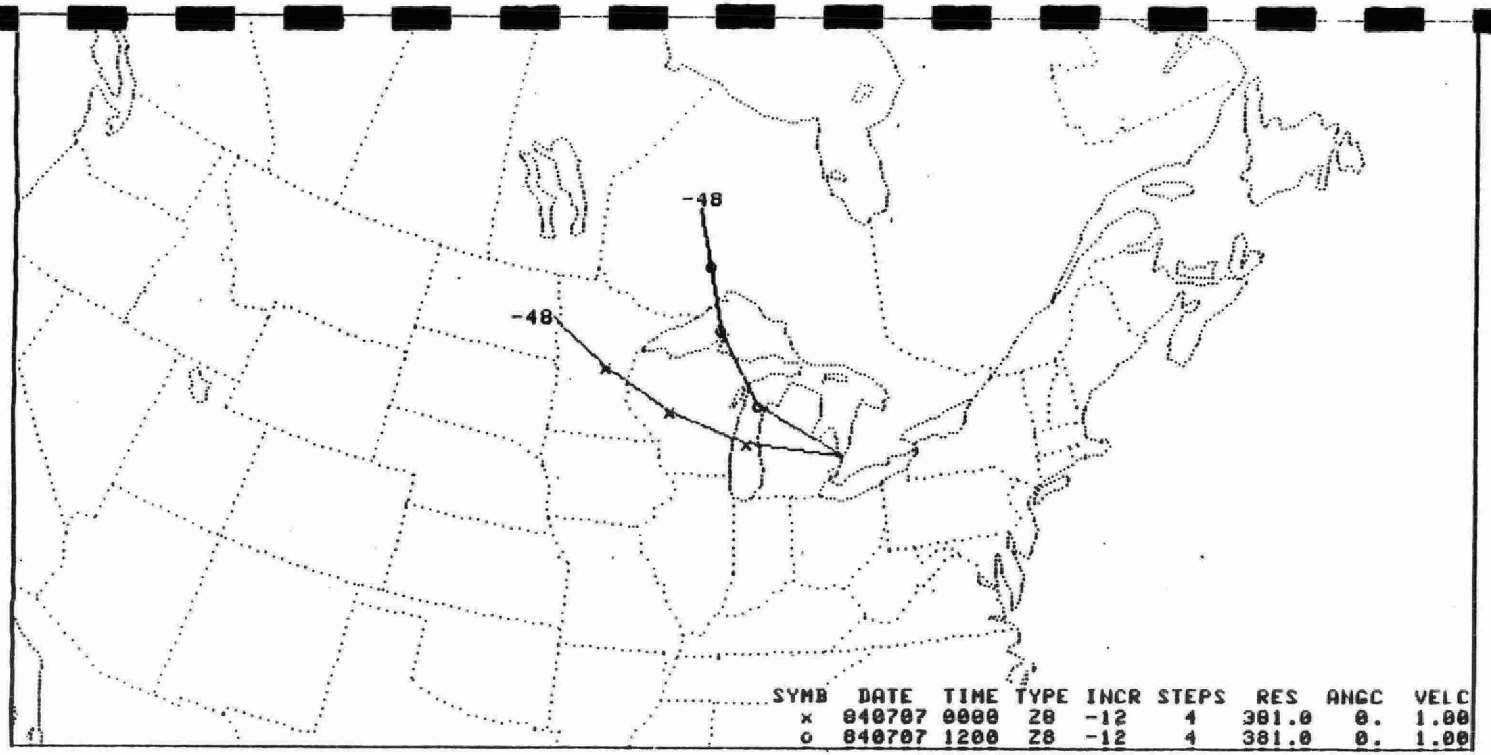
SYMB	DATE	TIME	TYPE	INCR	STEPS	RES	ANGC	VELC
x	840705	0000	Z8	-12	4	381.0	0.	1.00
o	840705	1200	Z8	-12	4	381.0	0.	1.00

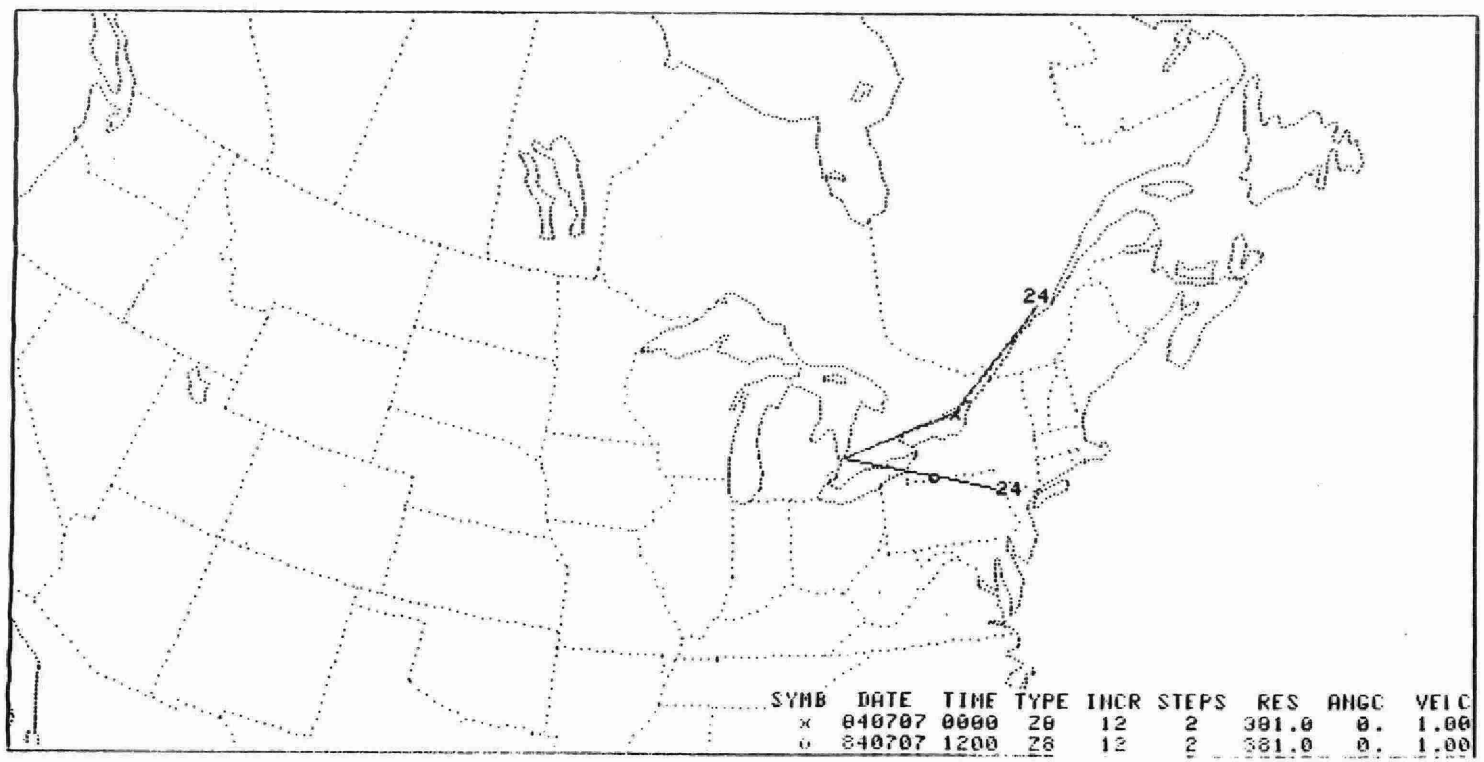


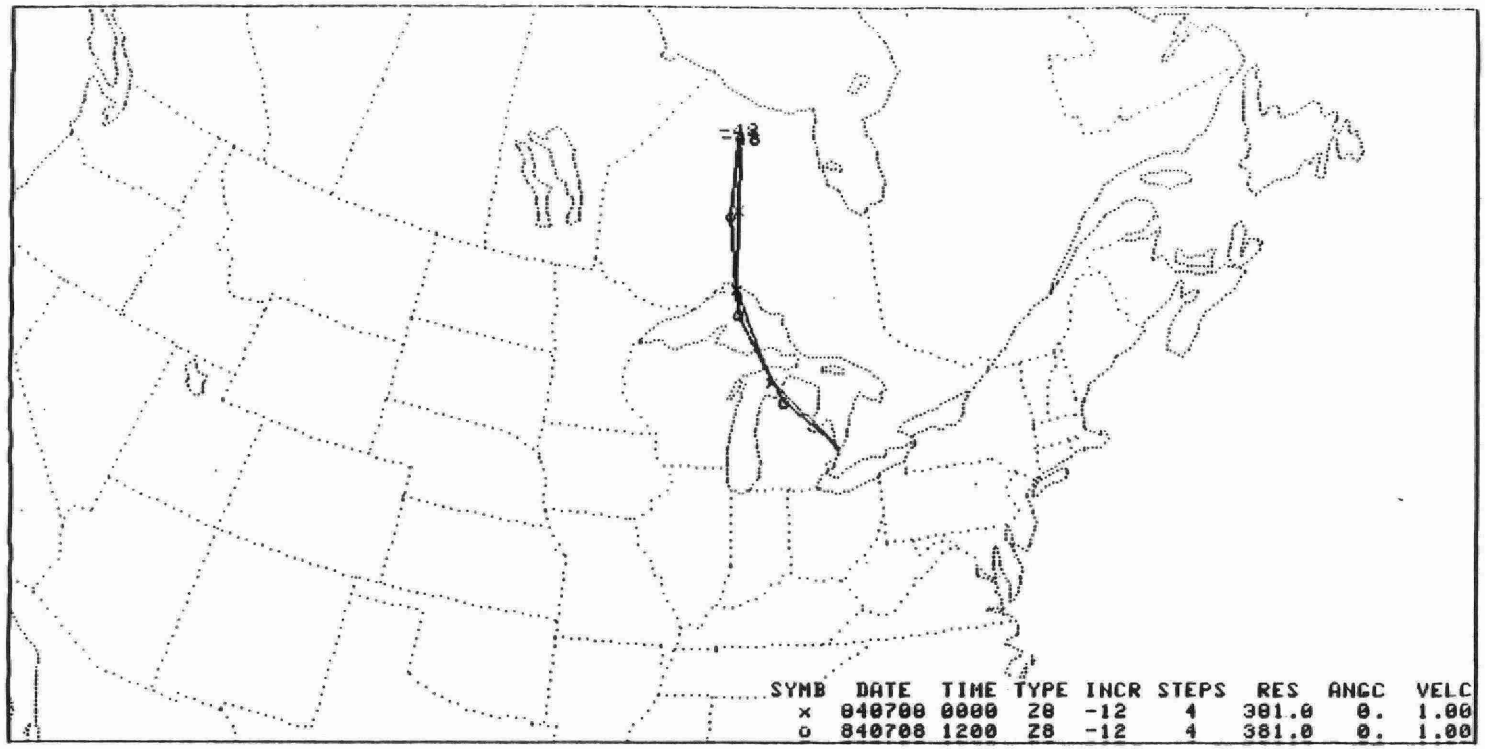
SYMB	DATE	TIME	TYPE	INCR	STEPS	RES	ANGC	VELC
x	840705	0000	Z8	12	2	381.0	0.	1.00
o	840705	1200	Z8	12	2	381.0	0.	1.00


-48
SYMB DATE TIME TYPE INCR STEPS RES ANGC VELC
× 840706 0000 Z0 -12 4 381.0 0. 1.00
o 840706 1200 Z0 -12 4 381.0 0. 1.00

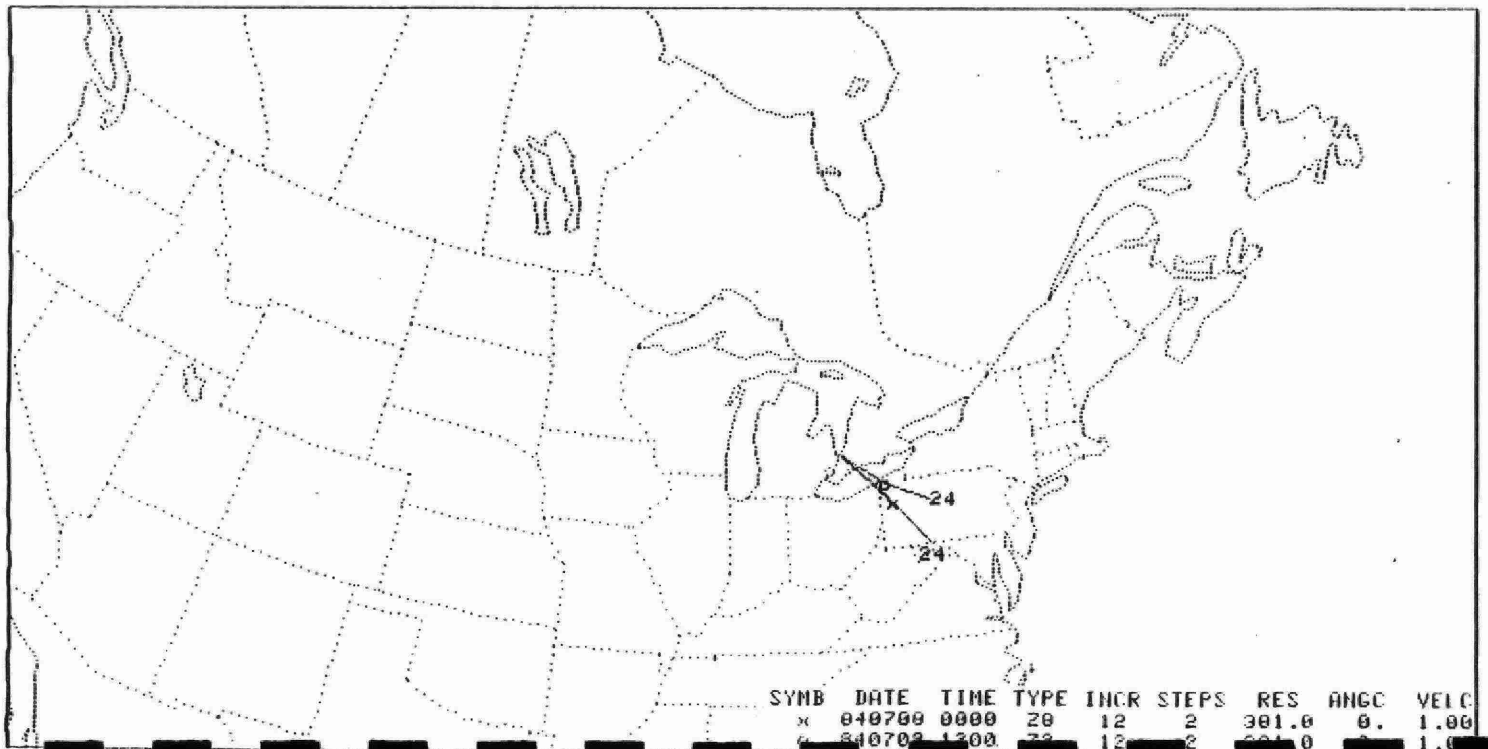

24
24
SYMB DATE TIME TYPE INCR STEPS RES ANGC VELC
× 840706 0000 Z0 12 2 381.0 0. 1.00


-48
-48
SYMB DATE TIME TYPE INCR STEPS RES ANGC VELC
x 840707 0000 Z8 -12 4 381.0 0. 1.00
o 840707 1200 Z8 -12 4 381.0 0. 1.00

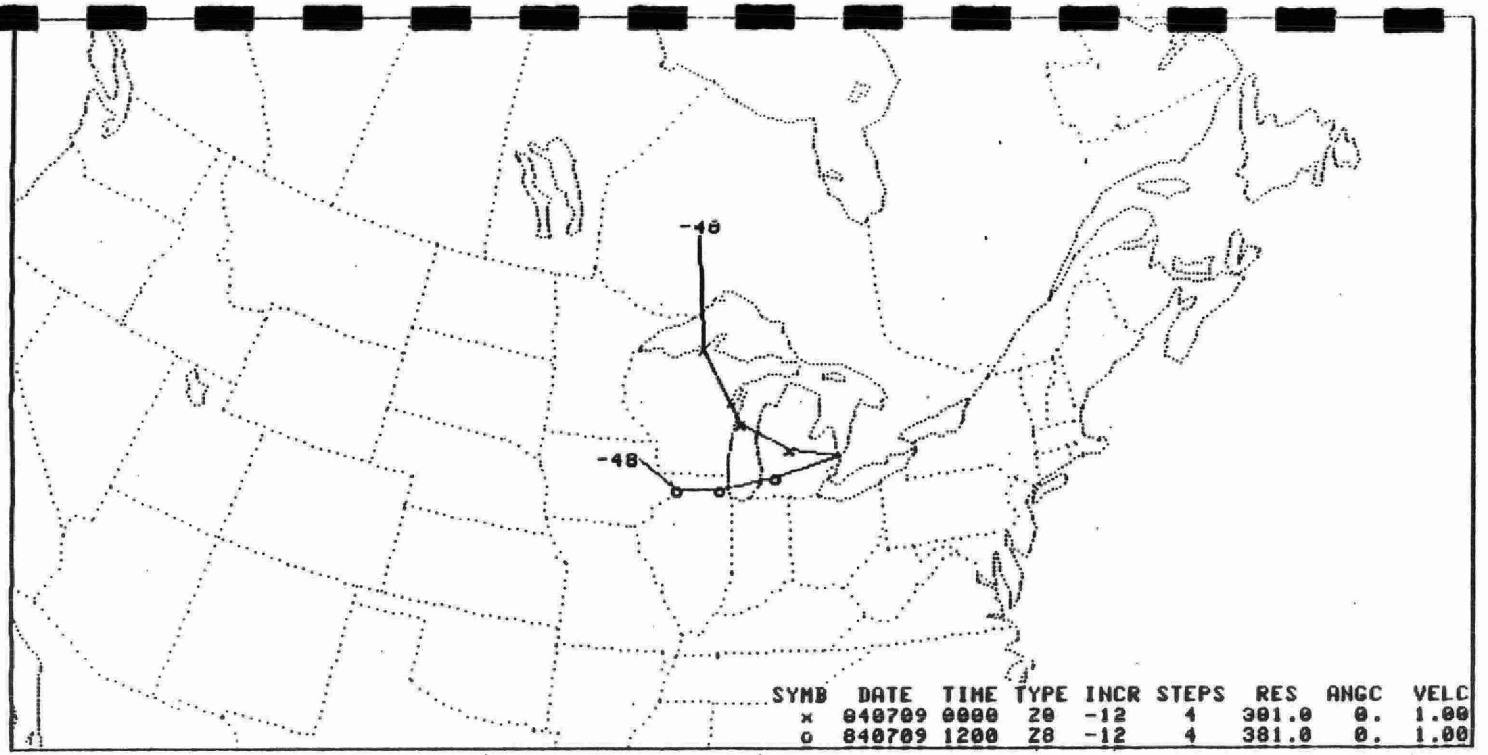

24
24
SYMB DATE TIME TYPE INCR STEPS RES ANGC VELC
x 840707 0000 Z8 12 2 381.0 0. 1.00
o 840707 1200 Z8 12 2 381.0 0. 1.00



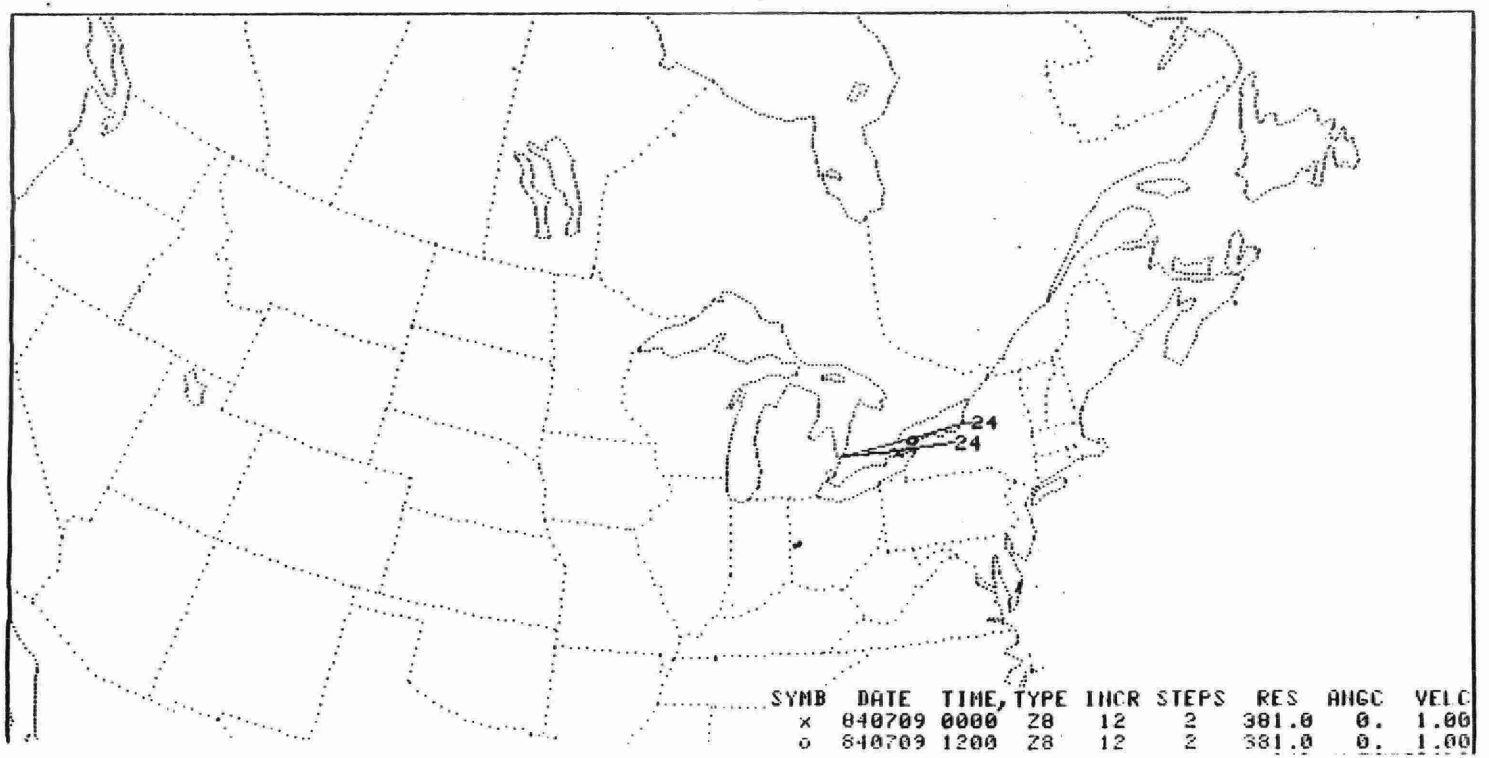
SYMB	DATE	TIME	TYPE	INCR	STEPS	RES	ANGC	VELC
×	840708	0000	Z8	-12	4	381.0	0.	1.00
o	840708	1200	Z8	-12	4	381.0	0.	1.00



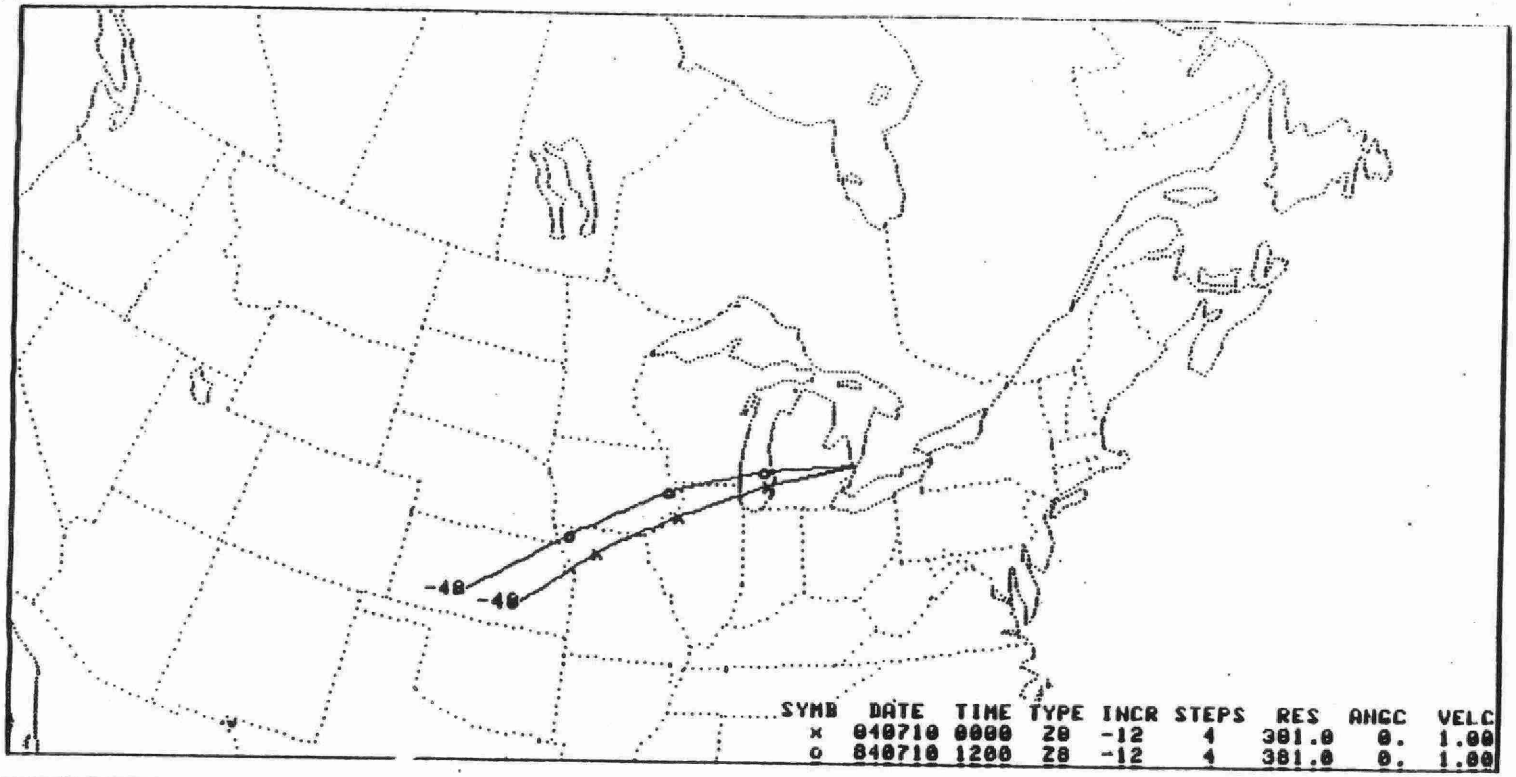
SYMB	DATE	TIME	TYPE	INCR	STEPS	RES	ANGC	VELC
×	840708	0000	Z8	12	2	381.0	0.	1.00
o	840708	1200	Z8	12	2	381.0	0.	1.00



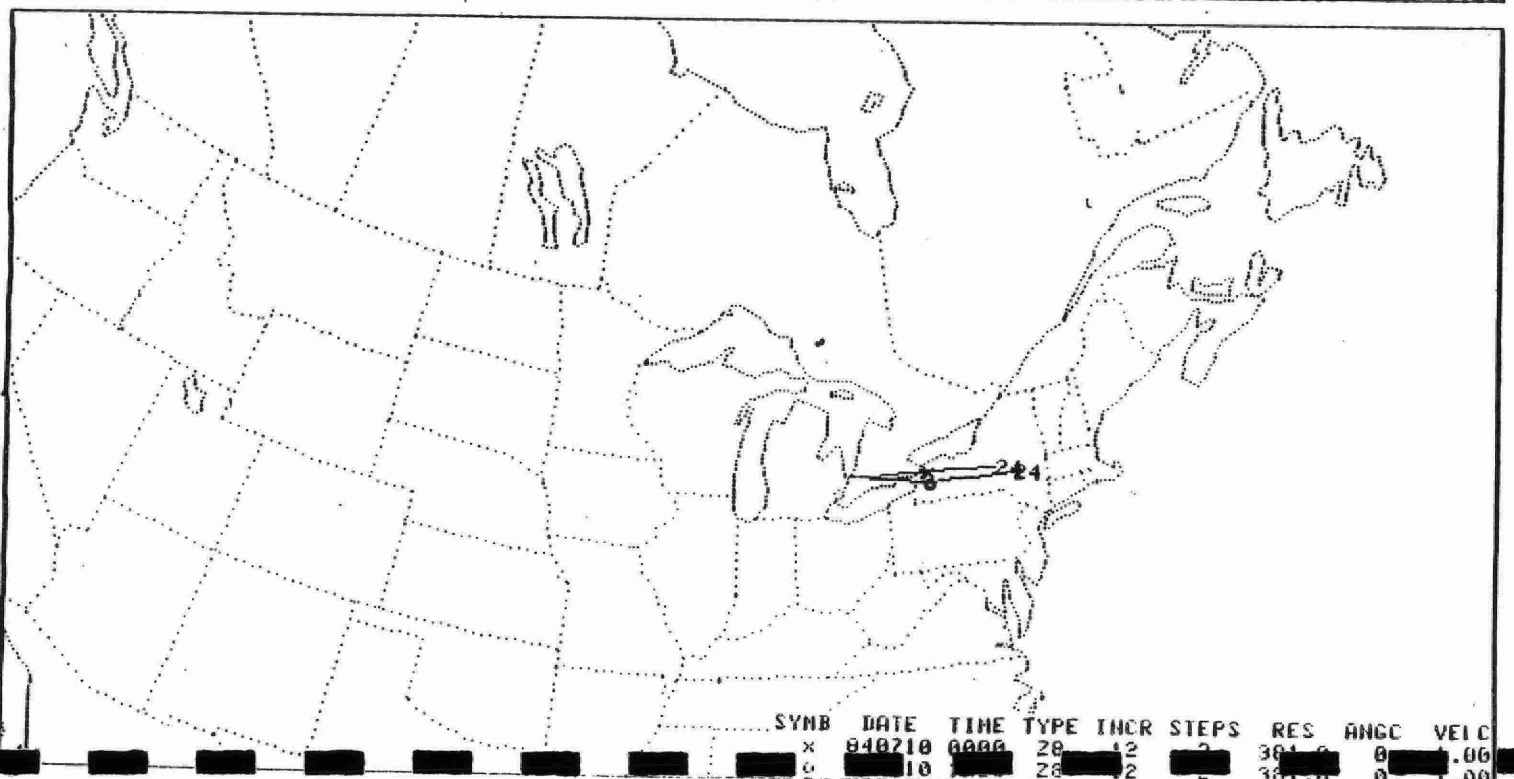
SYMB	DATE	TIME	TYPE	INCR	STEPS	RES	ANGC	VELC
x	840709	0000	Z8	-12	4	381.0	0.	1.00
o	840709	1200	Z8	-12	4	381.0	0.	1.00



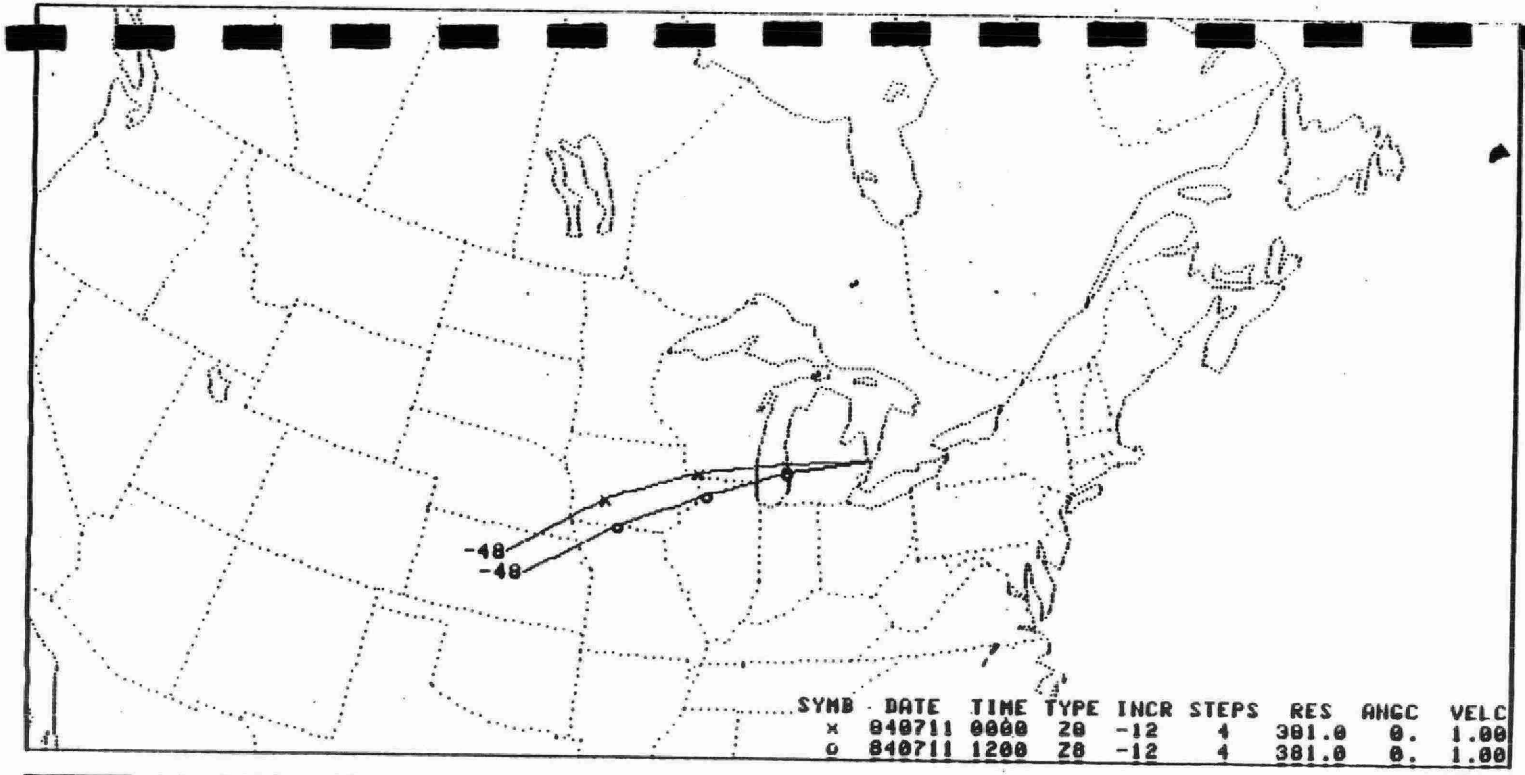
SYMB	DATE	TIME,	TYPE	INCR	STEPS	RES	ANGC	VELC
x	840709	0000	Z8	12	2	381.0	0.	1.00
o	840709	1200	Z8	12	2	381.0	0.	1.00

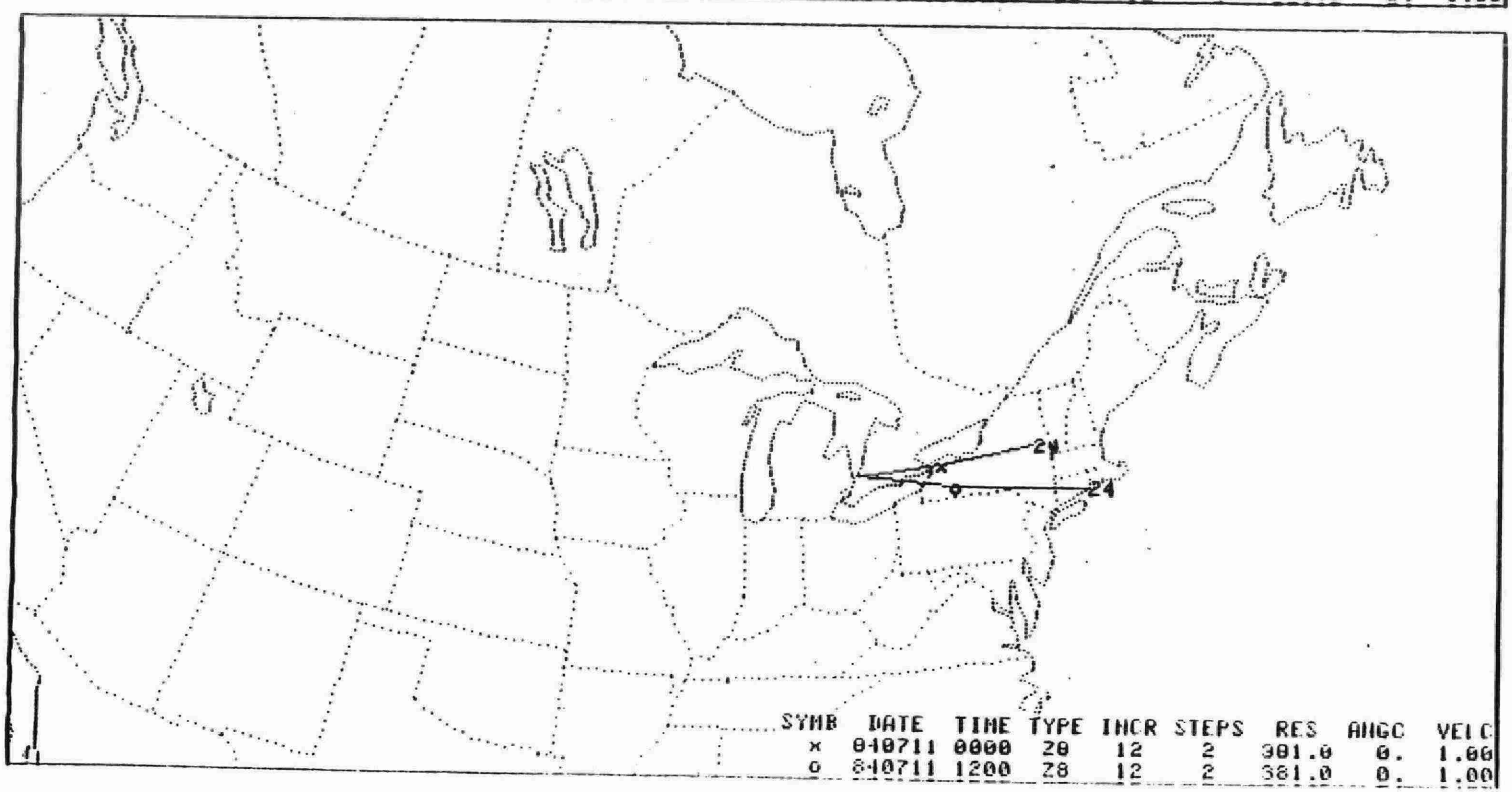


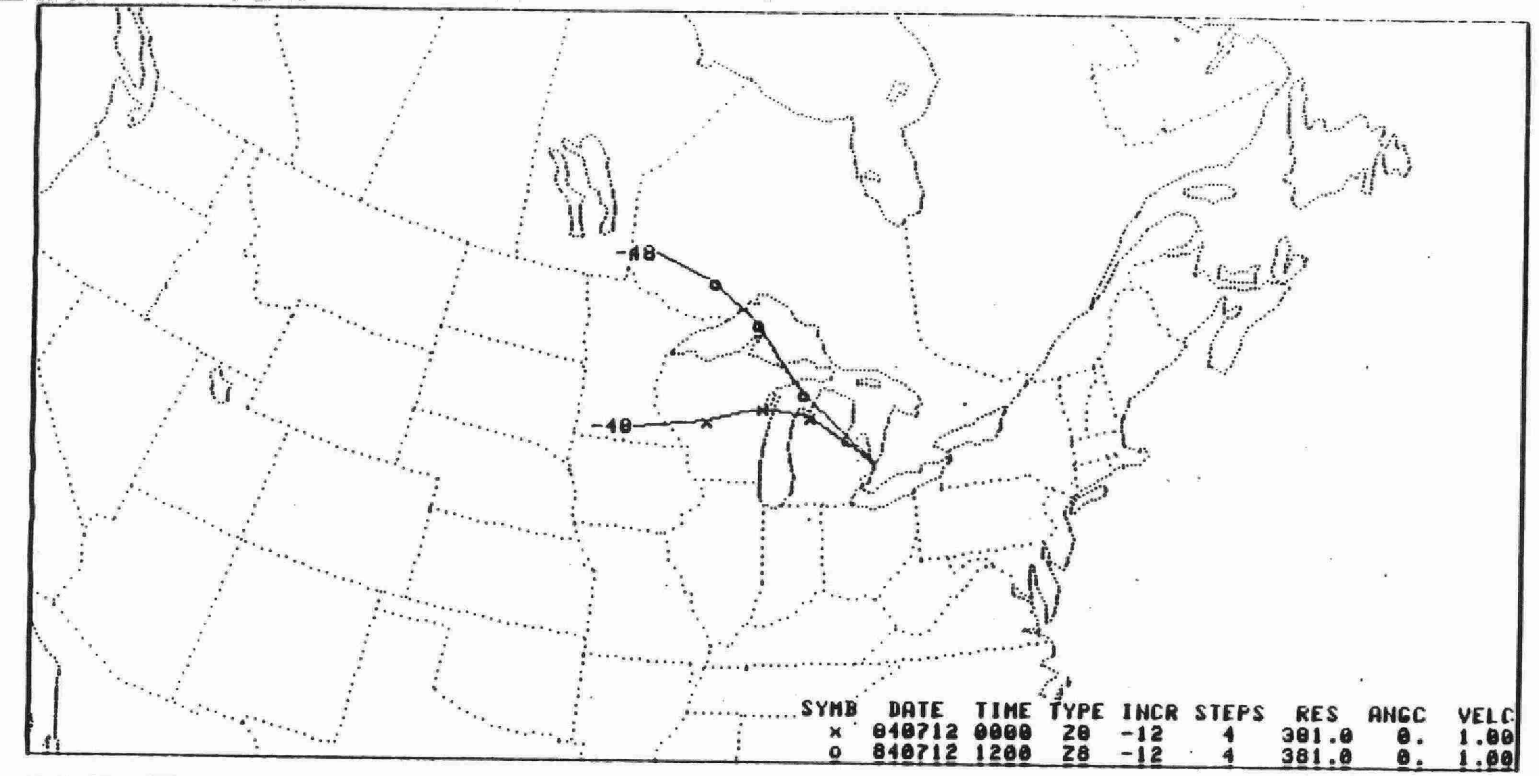
SYMB	DATE	TIME	TYPE	INCR	STEPS	RES	ANGC	VELC
×	840710	0000	Z0	-12	4	381.0	0.	1.00
o	840710	1200	Z0	-12	4	381.0	0.	1.00

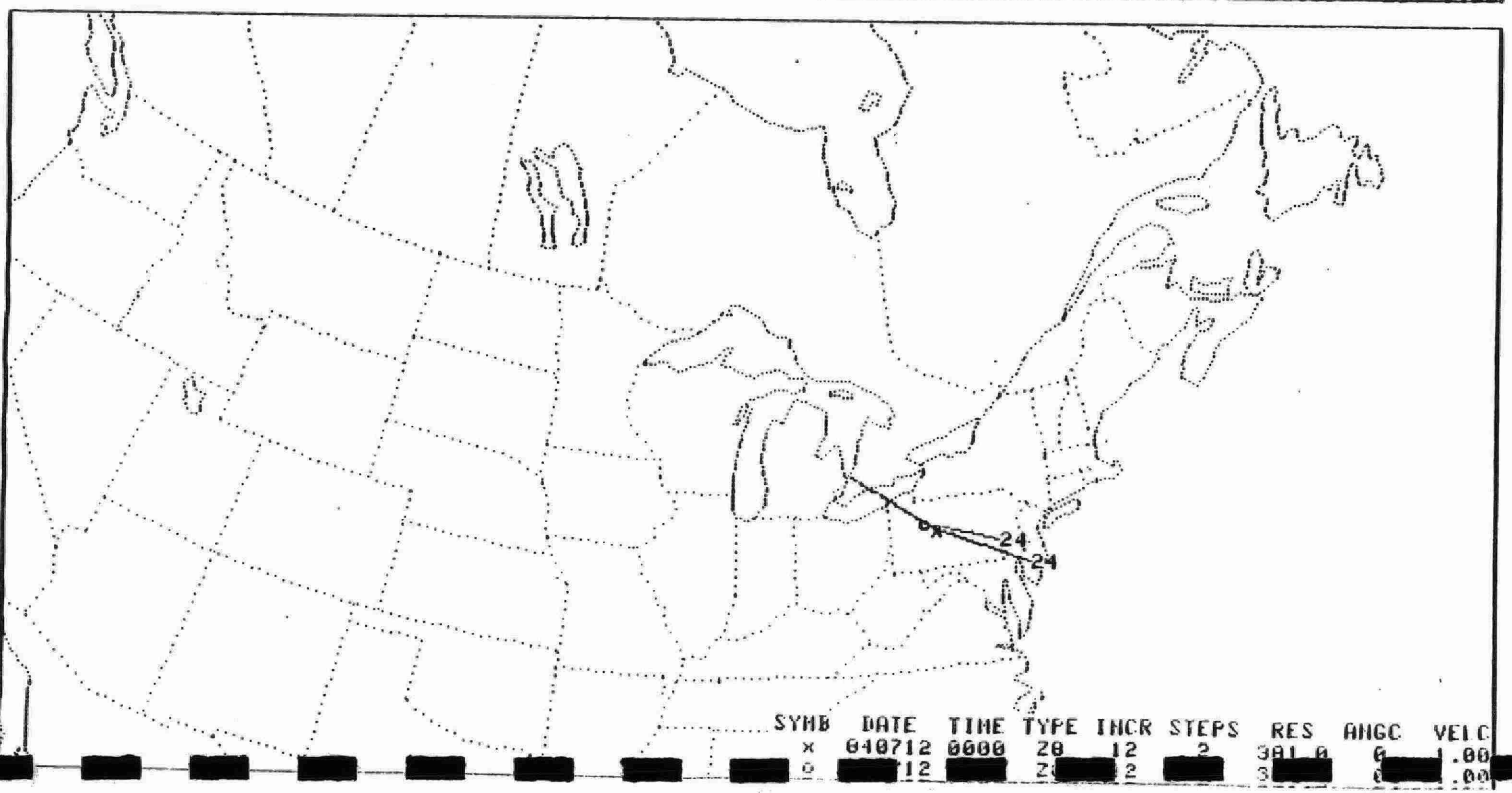


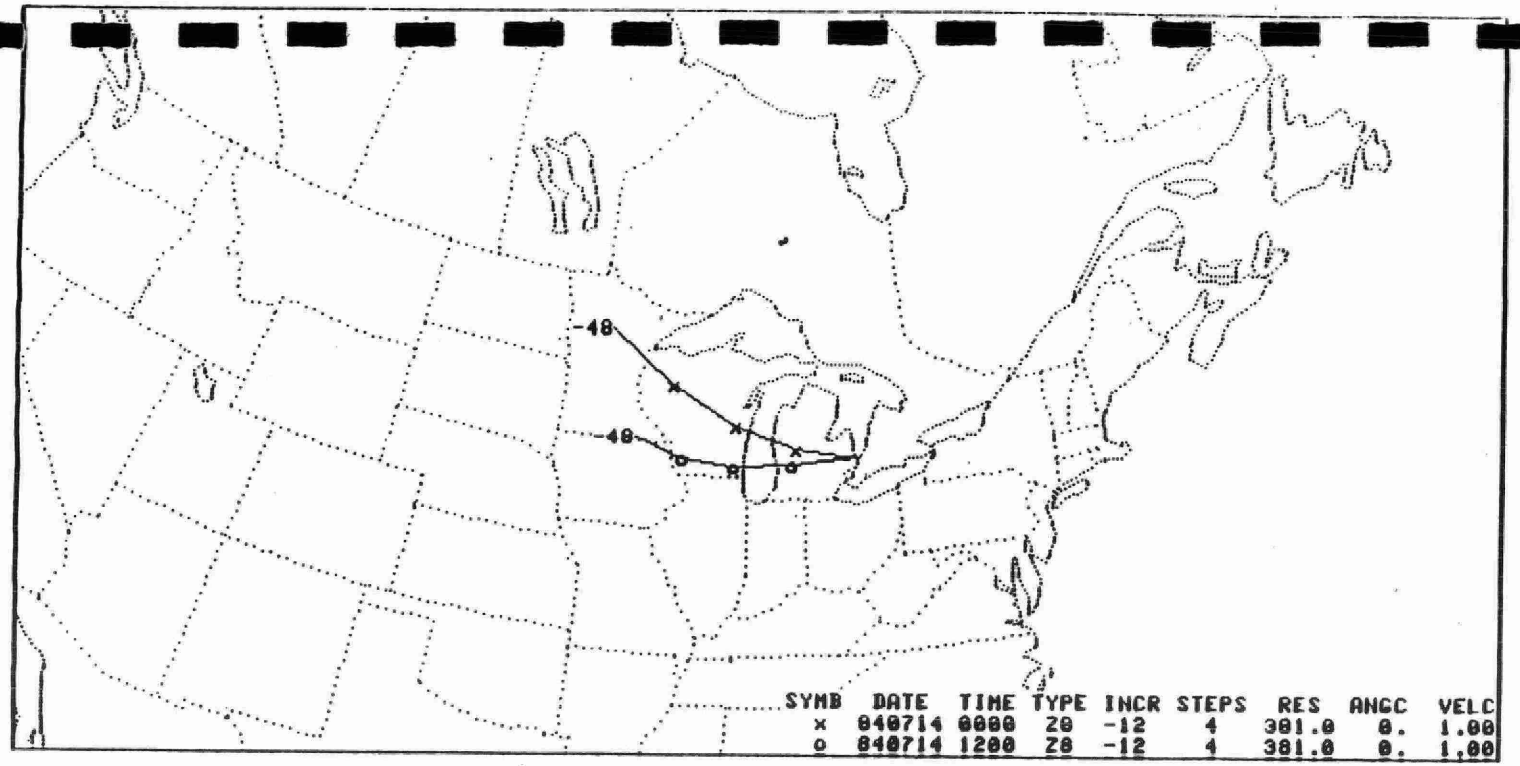
SYMB	DATE	TIME	TYPE	INCR	STEPS	RES	ANGC	VELC
×	840710	0000	Z0	12	2	381.0	0.	1.00
o	[illegible]10	[illegible]	Z0	12	2	381.0	0.	1.00


-48
-48
SYMB DATE TIME TYPE INCR STEPS RES ANGC VELC
× 840711 0000 Z0 -12 4 381.0 0. 1.00
o 840711 1200 Z0 -12 4 381.0 0. 1.00

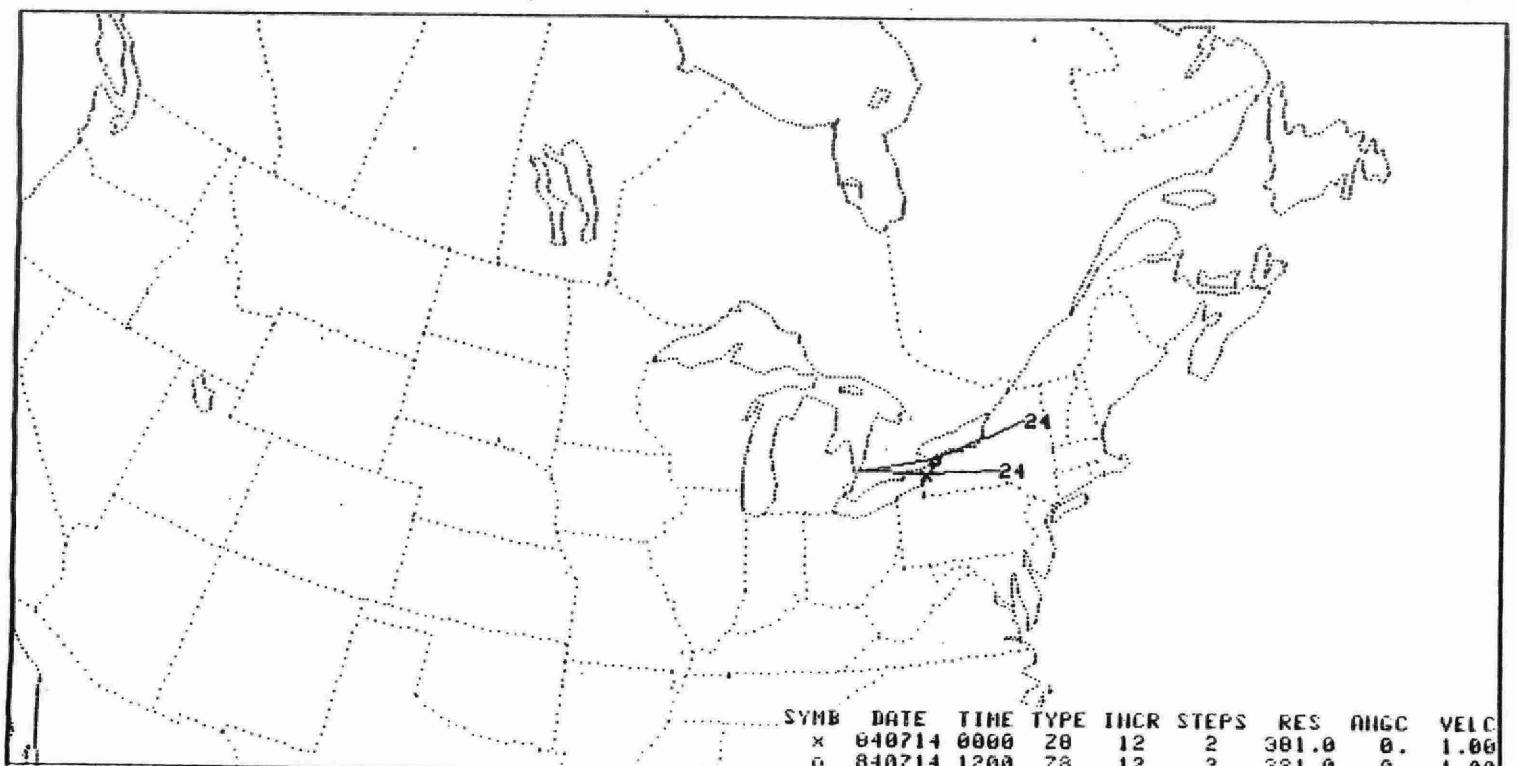

24
24
SYMB DATE TIME TYPE INCR STEPS RES ANGC VELC
× 840711 0000 Z0 12 2 381.0 0. 1.00
o 840711 1200 Z0 12 2 381.0 0. 1.00


-48
-48
SYMB DATE TIME TYPE INCR STEPS RES ANGC VELC
× 840712 0000 Z8 -12 4 381.0 0. 1.00
o 840712 1200 Z8 -12 4 381.0 0. 1.00

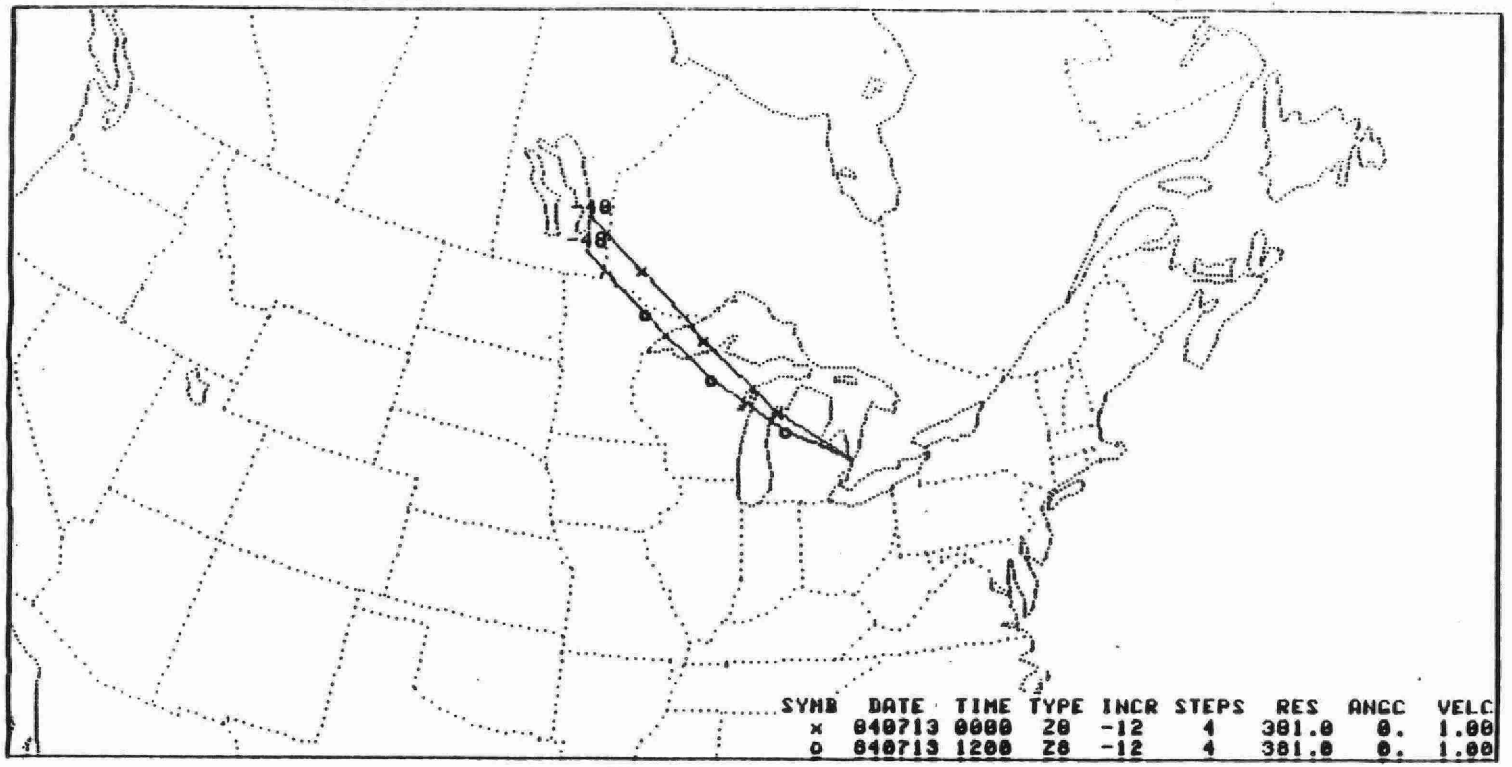

24
24
SYMB DATE TIME TYPE INCR STEPS RES ANGC VELC
× 840712 0000 Z8 12 2 381.0 0 1.00
o 12 Z 2 3 .00

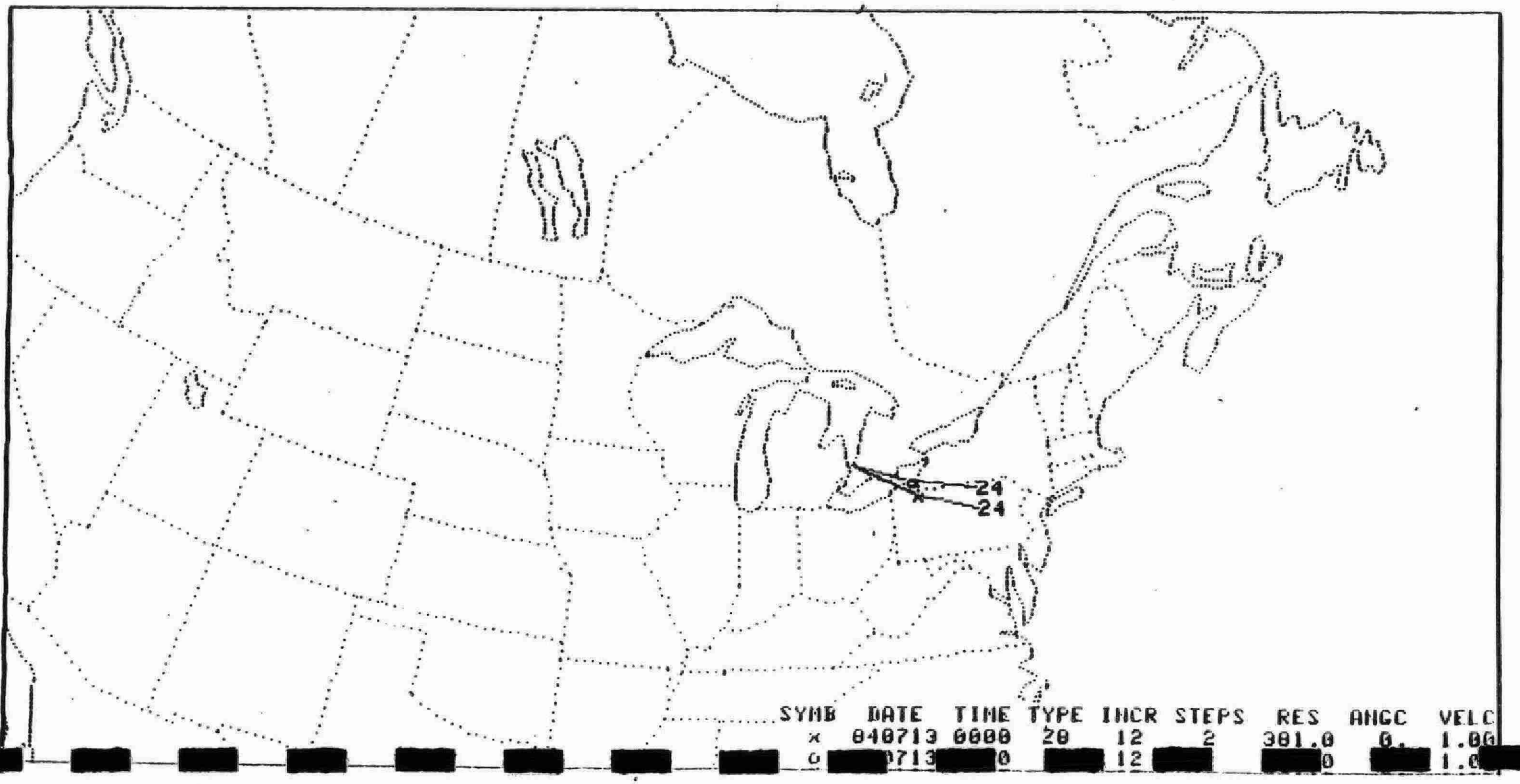


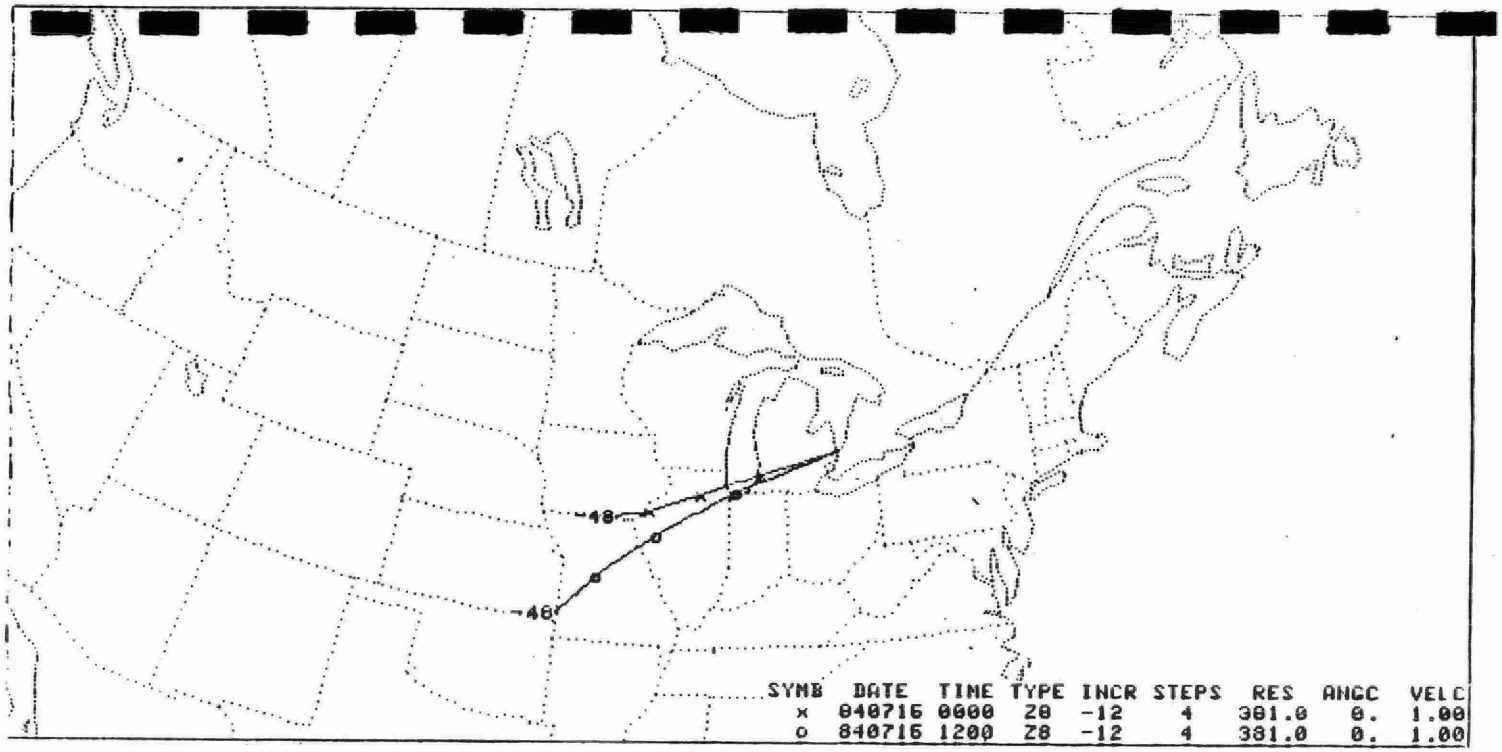
SYMB	DATE	TIME	TYPE	INCR	STEPS	RES	ANGC	VELC
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o	840714	1200	Z0	-12	4	381.0	0.	1.00



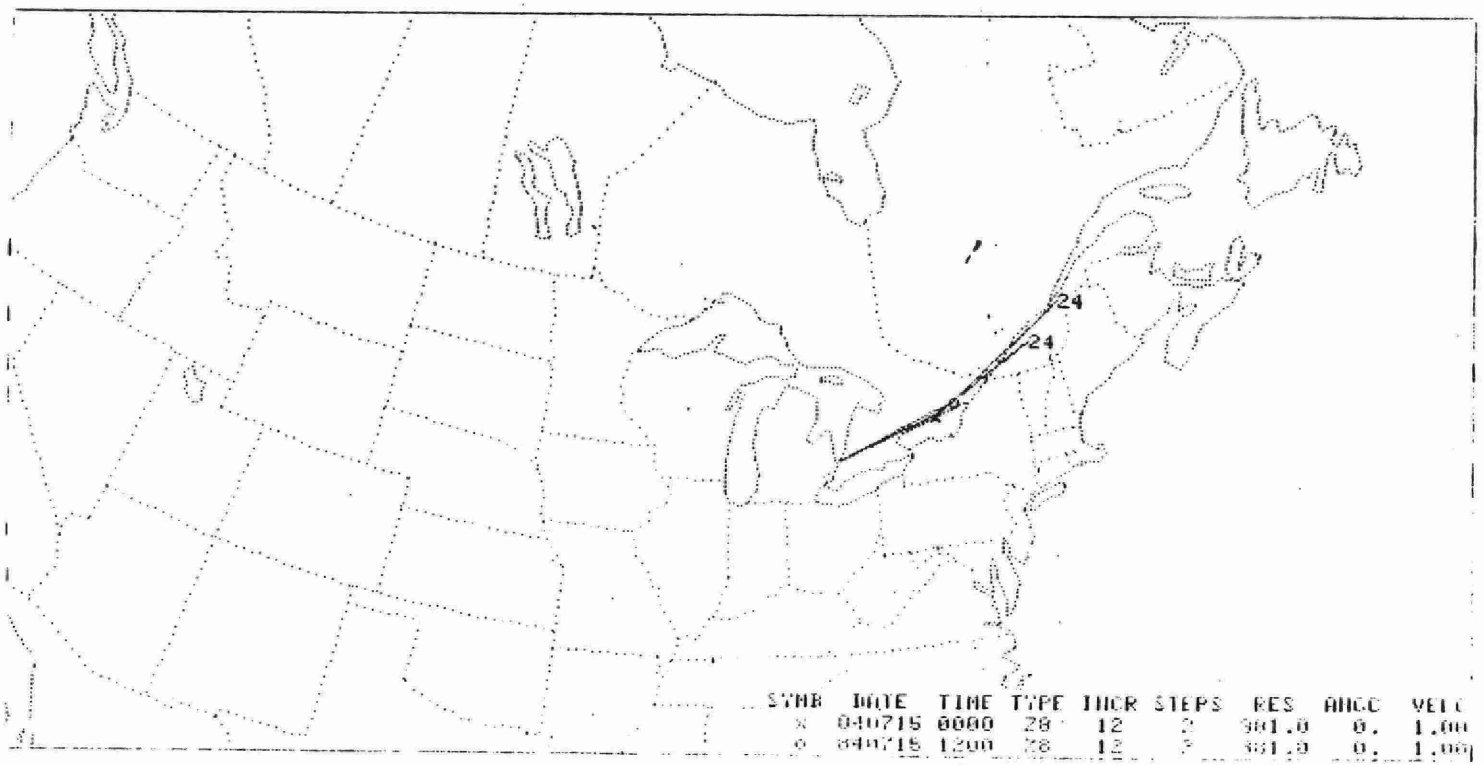
SYMB	DATE	TIME	TYPE	INCR	STEPS	RES	ANGC	VELC
x	840714	0000	Z0	12	2	381.0	0.	1.00
o	840714	1200	Z0	12	2	381.0	0.	1.00


-18
-48
SYMB DATE TIME TYPE INCR STEPS RES ANGC VELC
x 840713 0000 Z0 -12 4 381.0 0. 1.00
o 840713 1200 Z0 -12 4 381.0 0. 1.00

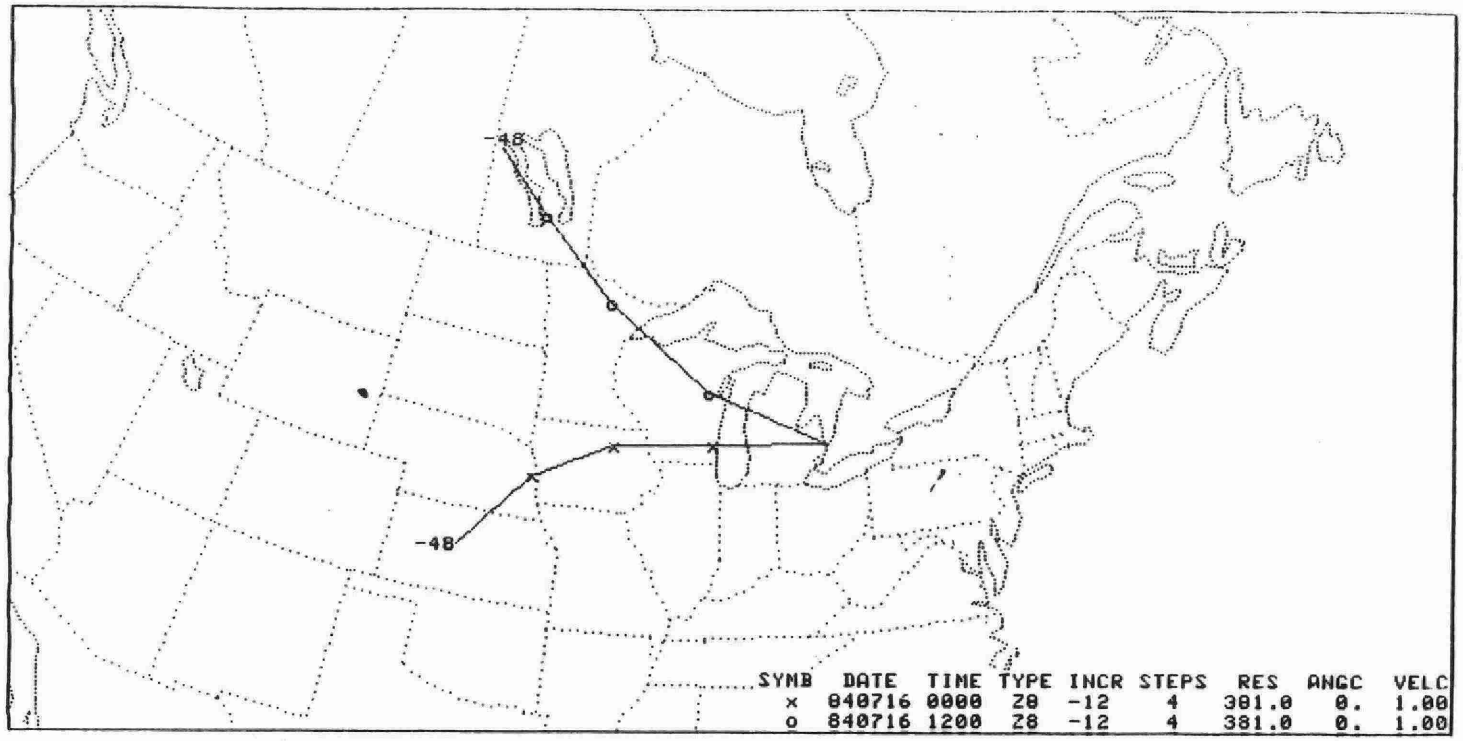

24
24
SYMB DATE TIME TYPE INCR STEPS RES ANGC VELC
x 840713 0000 Z0 12 2 381.0 0. 1.00



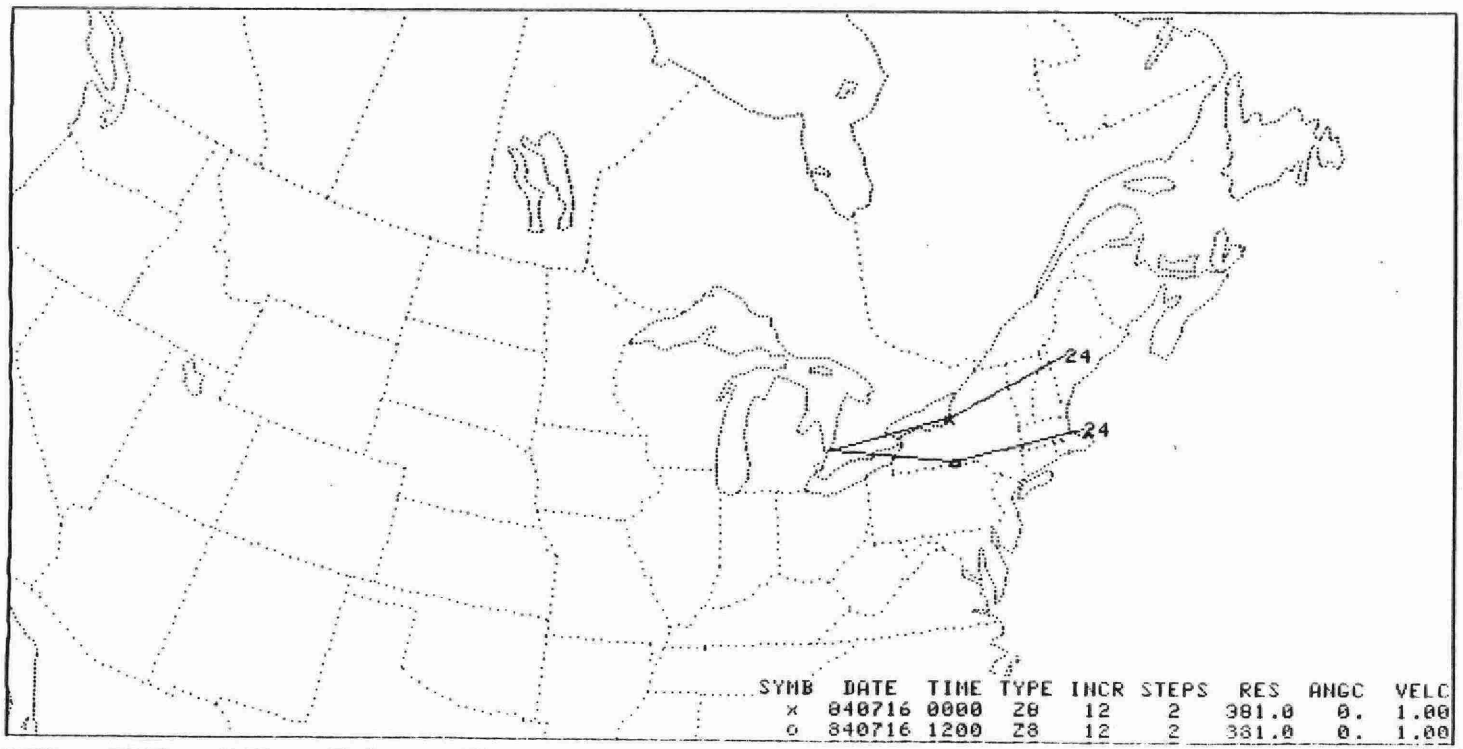
SYMB	DATE	TIME	TYPE	INCR	STEPS	RES	ANGC	VELC
x	840715	0000	Z8	-12	4	381.0	0.	1.00
o	840715	1200	Z8	-12	4	381.0	0.	1.00



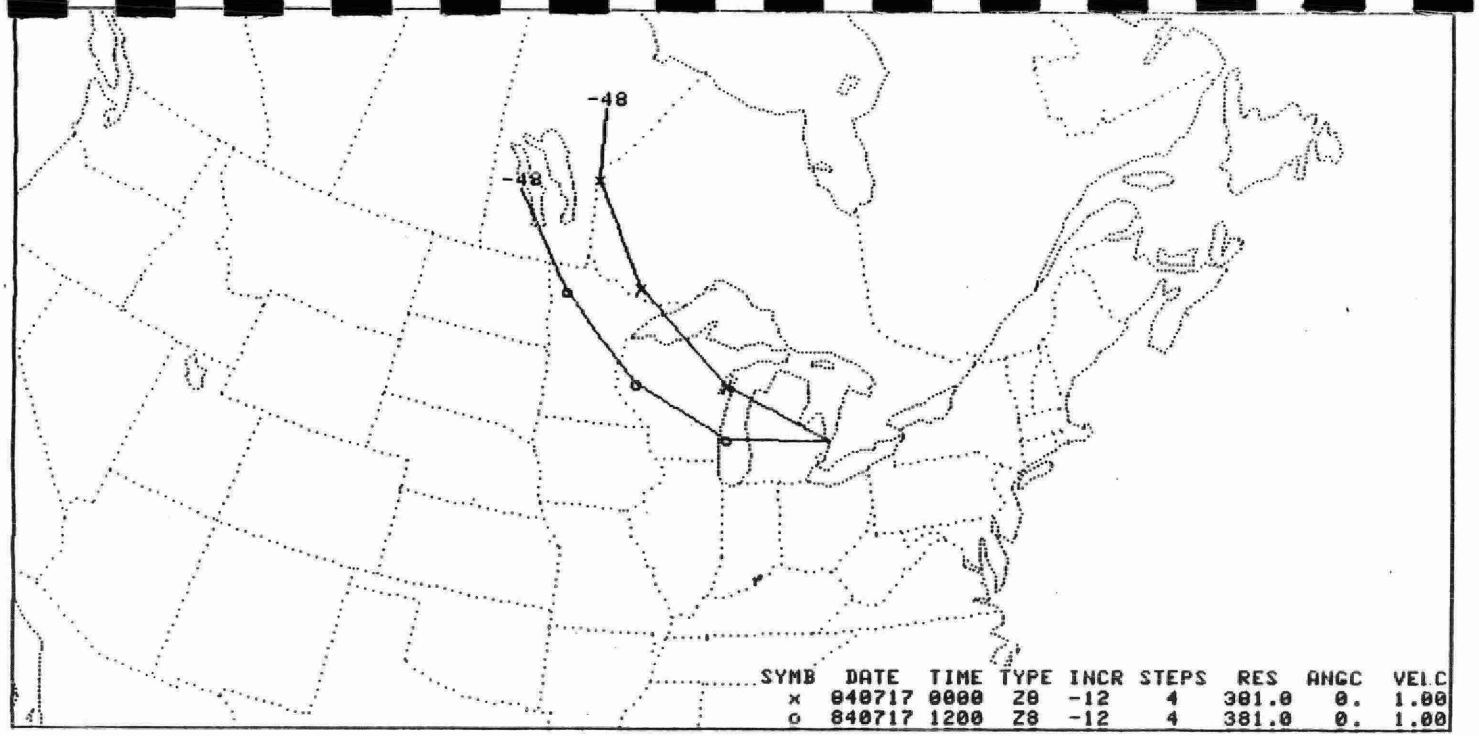
SYMB	DATE	TIME	TYPE	INCR	STEPS	RES	ANGC	VELC
x	840715	0000	Z8	12	2	381.0	0.	1.00
o	840715	1200	Z8	12	2	381.0	0.	1.00



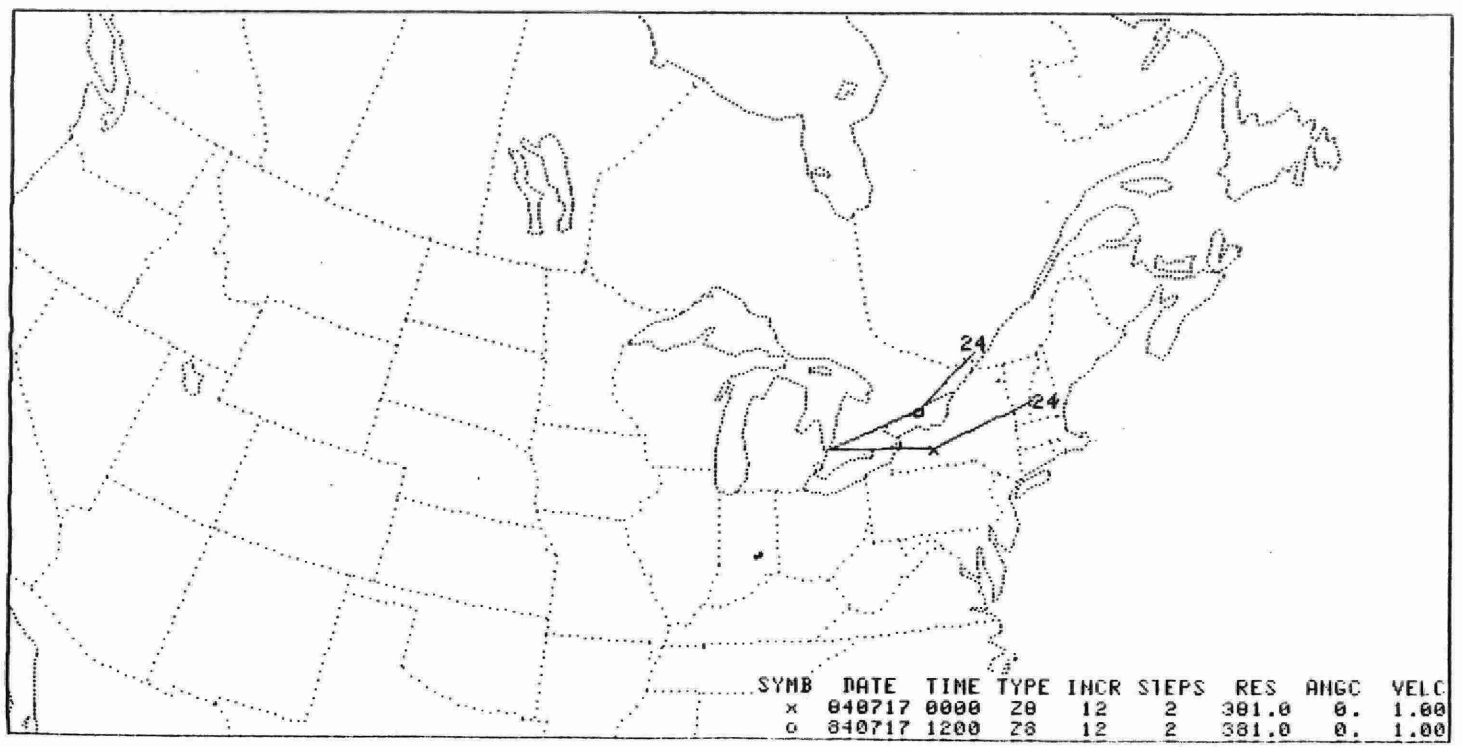
SYMB	DATE	TIME	TYPE	INCR	STEPS	RES	ANGC	VELC
x	840716	0000	Z8	-12	4	381.0	0.	1.00
o	840716	1200	Z8	-12	4	381.0	0.	1.00



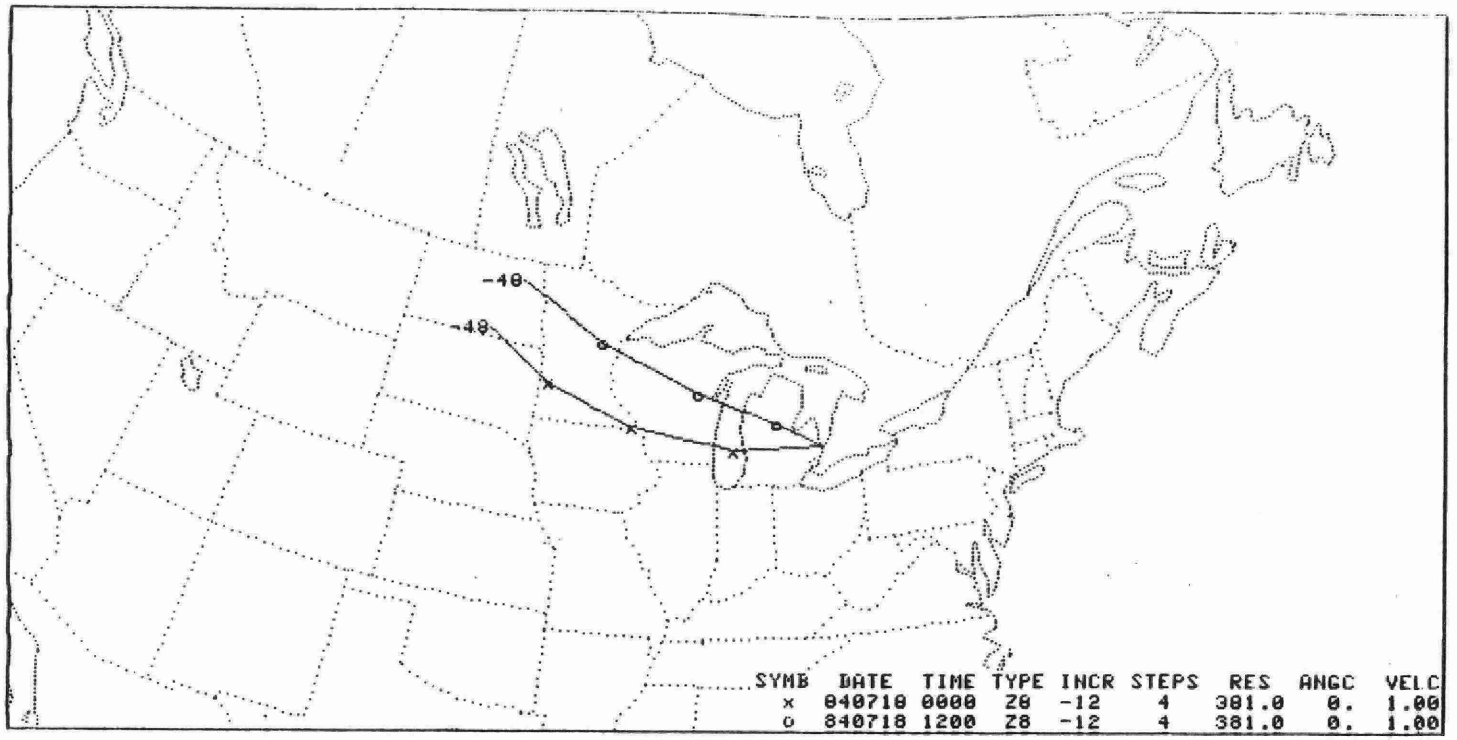
SYMB	DATE	TIME	TYPE	INCR	STEPS	RES	ANGC	VELC
x	840716	0000	Z8	12	2	381.0	0.	1.00
o	840716	1200	Z8	12	2	381.0	0.	1.00



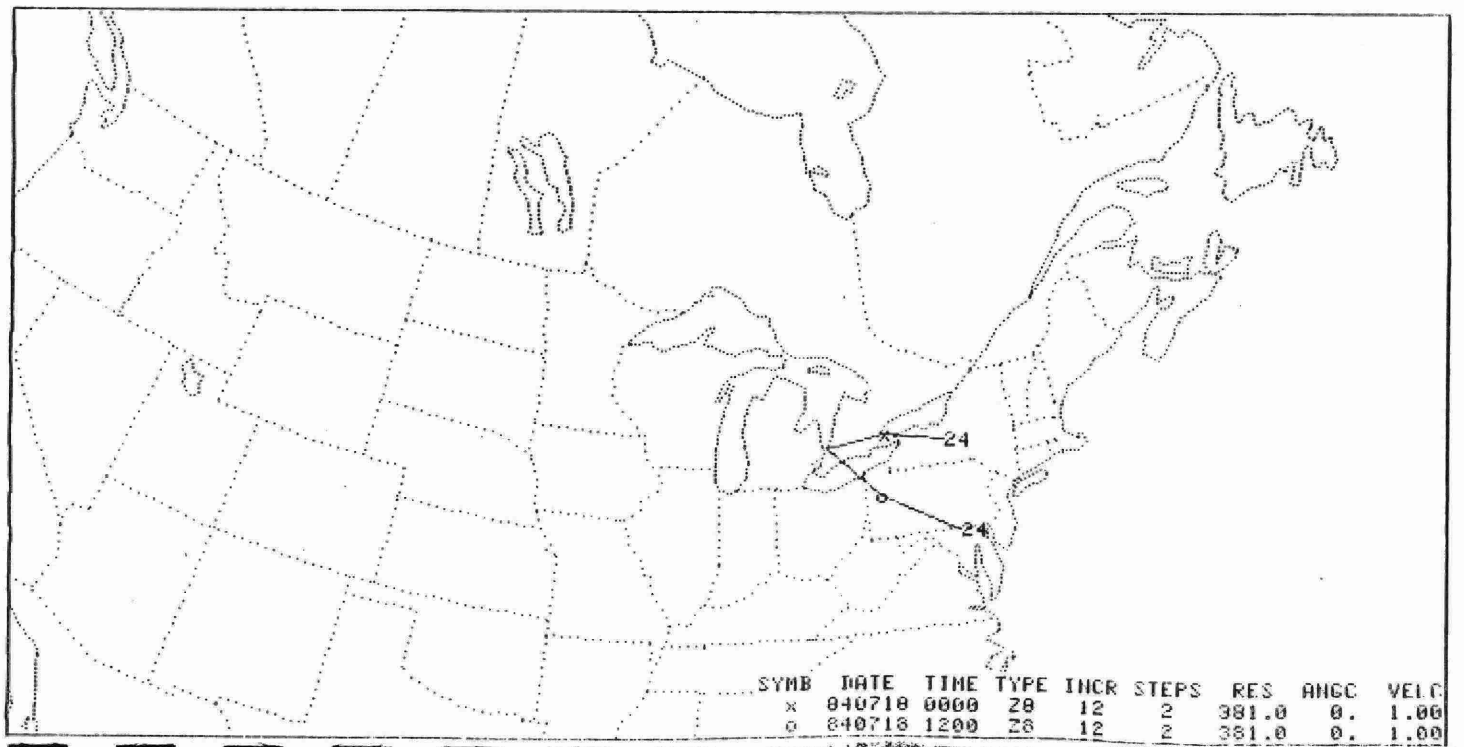
SYMB	DATE	TIME	TYPE	INCR	STEPS	RES	ANGC	VELC
×	840717	0000	Z8	-12	4	381.0	0.	1.00
o	840717	1200	Z8	-12	4	381.0	0.	1.00



SYMB	DATE	TIME	TYPE	INCR	STEPS	RES	ANGC	VELC
×	840717	0000	Z8	12	2	381.0	0.	1.00
o	840717	1200	Z8	12	2	381.0	0.	1.00



SYMB	DATE	TIME	TYPE	INCR	STEPS	RES	ANGC	VELC
x	840718	0000	Z8	-12	4	381.0	0.	1.00
o	840718	1200	Z8	-12	4	381.0	0.	1.00



SYMB	DATE	TIME	TYPE	INCR	STEPS	RES	ANGC	VELC
x	840718	0000	Z8	12	2	381.0	0.	1.00
o	840718	1200	Z8	12	2	381.0	0.	1.00


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